

**Panasonic**

# Operating Instructions

Electronic Typewriter  
Model No. **KX-R540**



Before operating this unit, please read these instructions completely.

*MC-Service*

Thank you for your purchase of the Panasonic Electronic Typewriter KX-R540.

This equipment has been tested and found to comply with the limits for a Class B computing device in accordance with the specifications set forth in Subpart J of Part 15 of the FCC Rules. If this equipment does cause interference to radio or television reception which can be determined by turning the equipment on and off, use the equipment in another location and/or utilize an electrical outlet different from that used by the receiver.

**WARNING:** TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.

The serial number of the unit may be found on the label at the right side of the unit when the Top Cover is opened. For your convenience, note this number below, and retain this book along with your proof of purchase, to serve as a permanent record of your purchase or for future reference.

MODEL NO. KX-R540 \_\_\_\_\_

SERIAL NO. \_\_\_\_\_

NAME OF DEALER \_\_\_\_\_

ADDRESS OF DEALER \_\_\_\_\_

DATE OF PURCHASE \_\_\_\_\_

#### Accessories (included)

Make sure that the following parts have been included with the unit.

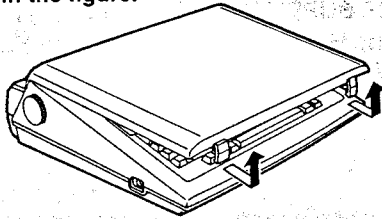
•Ribbon Cassette (installed on the carriage) . . . . .	1	•Operating Instruction Manual . . . . .	1
•Correction Tape (installed on the carriage) . . . . .	1	•Hard Cover . . . . .	1
•Daisywheel [KX-R10] (installed on the carriage) . . . . .	1	•Quick Reference Card . . . . .	1

Any details given in these Operating Instructions are subject to change without notice.

## Precautions

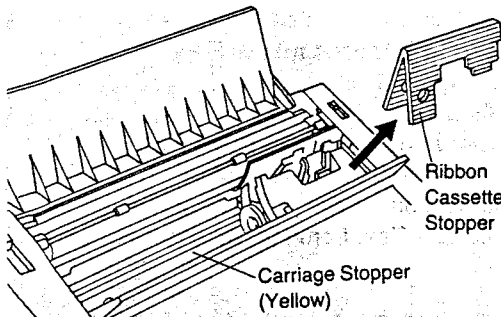
(Be sure to read this section before operating this unit.)

To use the unit, first remove the hard cover as shown in the figure.



- After confirming that the **POWER** switch is turned OFF, open the paper support and the front plate then remove the ribbon cassette stopper installed on the ribbon cassette and the carriage stopper installed on the carriage shaft. Be sure to keep these stoppers so the unit can be transported safely, if the need arises.

**NOTE:** Be careful not to damage the flat cable located at the right side of the carriage while removing the carriage stopper and the ribbon cassette stopper.

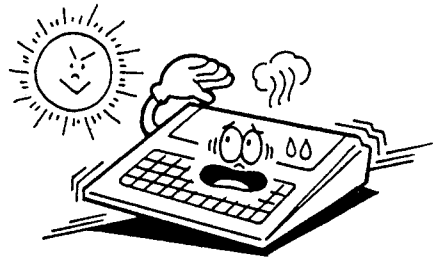


- When you transport or ship the typewriter, be sure to position the carriage at the far right of the unit, and insert the carriage stopper and the ribbon cassette stopper.

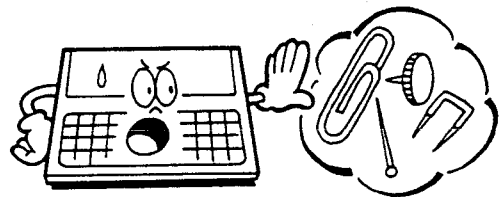
\* If there is a protective film on the LCD cover, remove it so that it does not interfere with the LCD.  
(Refer to p. 6.)

## Cautions

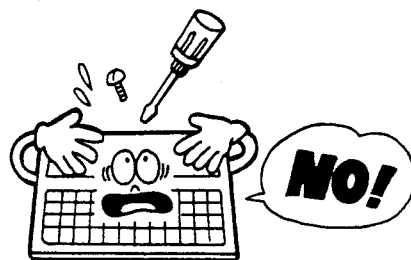
- Do not place your typewriter where it is exposed to direct sunlight, heat or intense vibration.



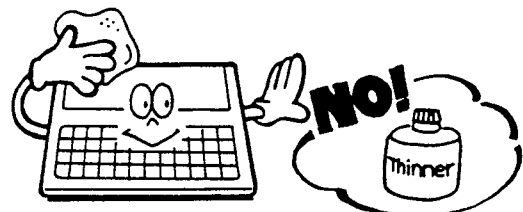
- Do not allow any foreign matter to enter the interior of the typewriter or get between the keys. Be especially careful of metal objects.



- To prevent electric shock, do not remove screws. No user serviceable parts inside.



- Use only soft, dry cloth to clean your typewriter. Water or thinners may damage the covers, cases or electronic circuitry.



# CONTENTS

The Operating Instructions for the typewriter are composed of the following six chapters.

## Chapter 1 BEFORE USING THE TYPEWRITER

1-1 NAMES AND OPERATION OF THE KX-R540	1-2 POWER SUPPLY	9
PARTS	A. Using Household AC Power	9
A. Main Parts	B. Power Switch	9
B. Mode Status Indicators and Guidances	C. Memory Back-up Function	9
C. Function Keys		8

## Chapter 2 BASIC OPERATIONS

2-1 SETTINGS	12~13	E. Index and Reverse Index	17
2-2 USING THE TYPEWRITER	14~25	F. Correction	17~20
A. Procedure for Typing	14	G. Bold Print	20
B. Margin Formats	14~15	H. Underlining	20~21
C. Hot Zone	15	I. Decimal Tabulation	21
D. Using the Display	16	J. Carriage Return (NORM•AUTO)	22

## Chapter 3 MEMORY

3-1 MEMORY	28	G. Word Search	32~33
3-2 TEXT MEMORY	28~38	H. Word Replace	33
A. To Store Information in the Text Memory	29	I. Block Move, Copy and Delete	34~35
B. To Add to an Existing Text	30	J. To Insert or Append a Text into Another Text	35
C. To Print a Text from Memory	30~31	K. To Rename a Text	36
D. To Stop Printing in the Middle of a Text	31	L. To List Texts on the Display	36
E. To Print from a Particular Point	31	M. To Print the Text Listing	37
F. To Modify a Text	32	N. Memory Left	37
		O. To Clear a Text from Memory	37

## Chapter 4 ACCU-SPELL PLUS

4-1 ACCU-SPELL PLUS™ (Spell Verifying/Correcting Feature)	39~43	A. Accu-Spell Plus Operation	40~41
		B. How to Verify/Correct the Spelling of an Entire Text	41~42

## Chapter 5 PRINTER

5-1 USE AS A PRINTER (with KX-R60)	44~46	A. Connection to a Computer	44
---------------------------------------	-------	-----------------------------	----

## Chapter 6 APPENDIX

6-1 LIST OF CODE KEY FUNCTIONS	46~47	6-3 OTHERS	50
6-2 LIST OF DISPLAY MESSAGES	48~49	A. Troubleshooting	50
		B. Product Service	50

1-3 CHANGING THE  
RIBBON CASSETTE ..... 9

1-4 CHANGING THE  
CORRECTION TAPE ..... 10

1-5 CHANGING THE DAISYWHEEL ..... 10

1-6 INSERTING THE PAPER ..... 11

K. Centering ..... 22~23  
L. Right Margin Flush ..... 23  
M. Paragraph Indent ..... 24  
N. Permanent Hyphen ..... 24  
O. Permanent Space ..... 24  
P. Caps Lock ..... 25

Q. Micro Spacing ..... 25  
R. Half Space ..... 25  
S. Typing Impression Control ..... 25

2-3 AUTO COLUMN ..... 26~27

P. To Change the Margin Format  
in the Text ..... 37  
Q. Word-Wrap ..... 38

3-3 APPLICATION ..... 38~39  
A. Stop Code ..... 38~39  
B. To Store Information with No Print ..... 39

C. How to Add Words to the  
User's Dictionary ..... 42

D. How to List or Delete the Words in  
the User's Dictionary ..... 43

B. Operation ..... 44

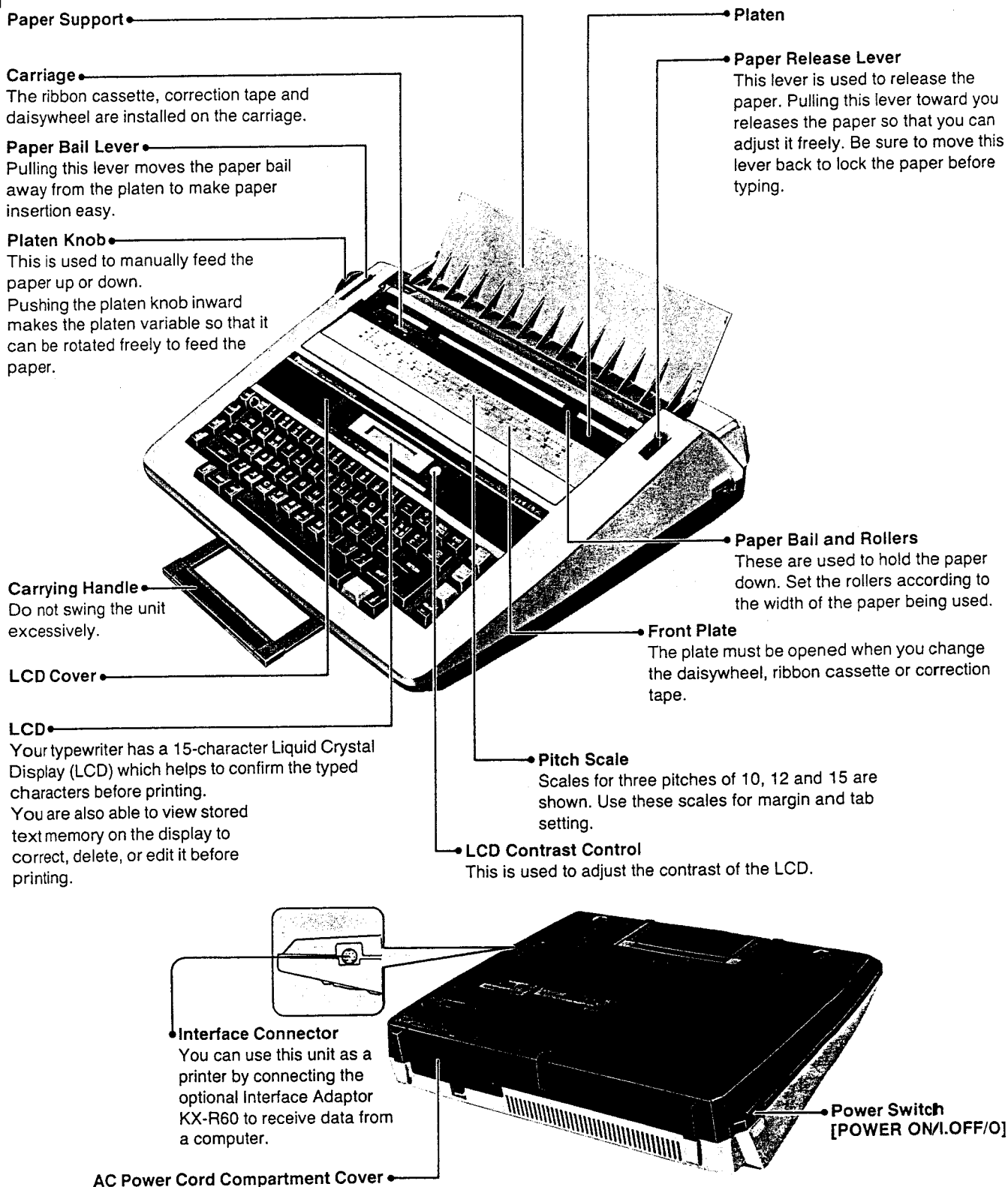
C. Reference ..... 45~46

6-4 OPTIONAL ACCESSORIES ..... 51

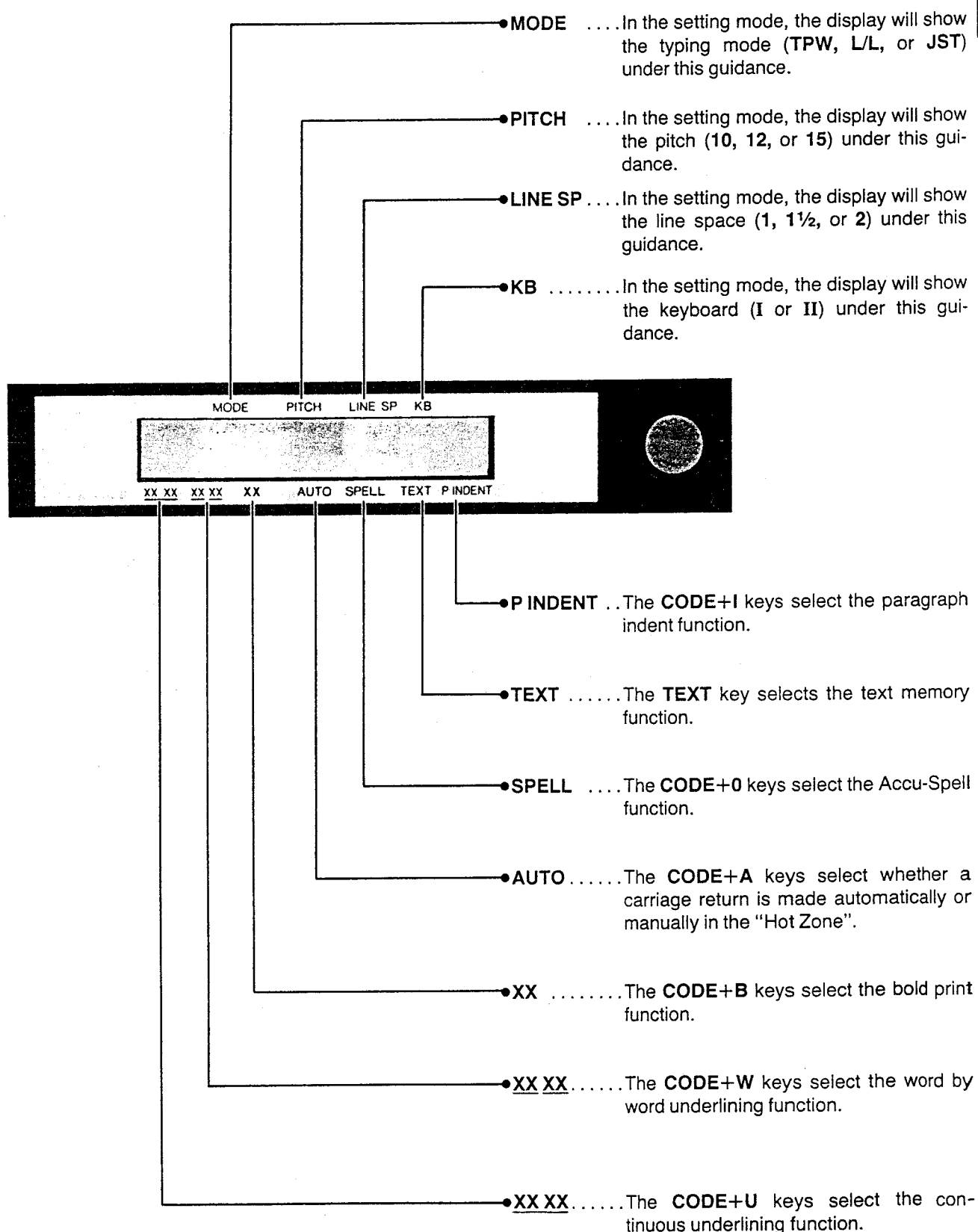
6-5 SPECIFICATIONS ..... 51

# 1-1 NAMES AND OPERATION OF THE KX-R540 PARTS

## 1 A Main Parts



## B Mode Status Indicators and Guidances



## C Function Keys

1



Sets the left margin.



Sets the right margin.



Sets TAB stops.



Clears TAB stops. Also clears all tabs when used with **CODE** key.



Releases left and right margins.



Pressing down this key locks the shift function so that capital letters or symbols on the top part of keys can be printed successively. Pressing the **SHIFT** key terminates the lock function.

### •Shift Lock Indicator

Illuminates during the lock function.

**SHIFT**

Pressing a character key while holding down this key causes the capital letter or the symbol on the top part of the key to be printed.



Moves the paper down 1/2 line.

**CODE**

Command key for automated functions used in conjunction with other keys.



Makes most keys repetitive keys.



Allows you to erase one word at a time. Also deletes one line at a time when used with the **CODE** key.



Moves the paper up 1/2 line.



Moves the carriage to the left margin of the next line.



Deletes characters from paper, display and memory.



Moves the information on the display by one character toward the left. Moves to next text name.



Moves the carriage by one space toward the left or the information on the display toward the right. Moves to prior text name.



Moves the carriage next to the last printed character. (When you press this key after correcting errors on any previous line, the carriage moves next to the last printed character on the end of the line so that you can continue typing with no delay.) Also moves the carriage to the beginning of the line without line spacing when used with the **CODE** key. (Express Return)



Instructs the typewriter to make a table.



Instructs the typewriter to start/stop printing documents stored in memory.



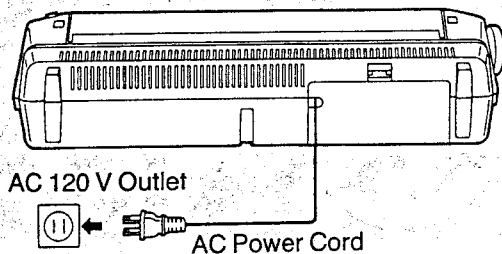
Allows you to enter/recall information into/from memory and view the text on the display for modification.



# 1-2 POWER SUPPLY

## A Using Household AC Power

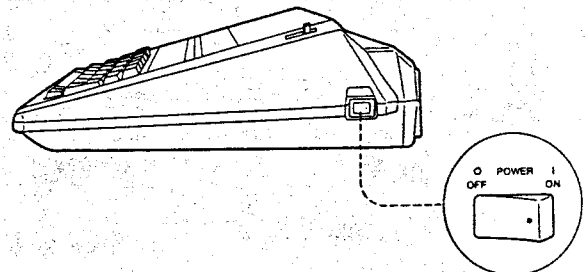
Connect the AC Power Cord to a household AC 120 V outlet.



\* If you will not be using the unit for several days, unplug the power cord after turning off the **POWER** switch. About 3 watts are consumed even while the **POWER** switch is turned off.

## B Power Switch

When the **POWER** switch is set to "ON", the carriage will move to the left margin which was previously set. The unit is now ready for typing.



## C Memory Back-up Function

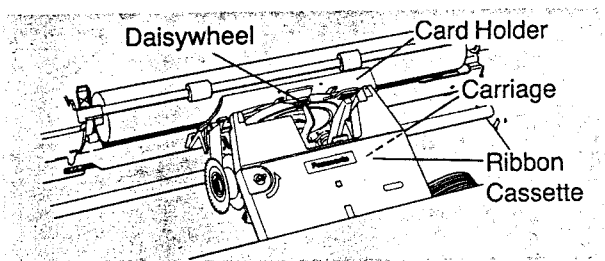
The following information will be stored even after the **POWER** switch is turned off:

- Stored Text
- Margins
- Typing Impression
- Tabs
- Stored Dictionary
- Mode Settings

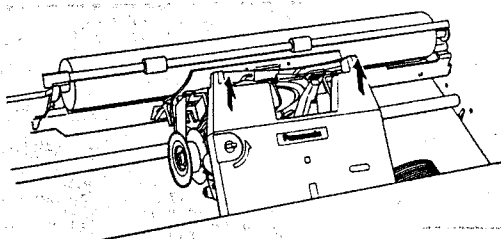
The built-in lithium battery that is used to retain these functions can be used for about 5 years.

# 1-3 CHANGING THE RIBBON CASSETTE

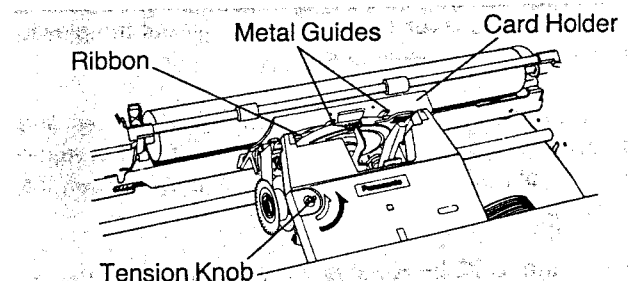
- 1 After turning the **POWER** switch off, open the paper support and remove the front plate. You will see the carriage, ribbon cassette and daisywheel.



- 2 Hold the ribbon cassette on both sides and lift up the front portion (where the ribbon is exposed) to remove.



- 3 To insert a new cassette, place the back end of the cassette, on the cassette holder on the carriage and snap the front portion of the cassette onto the carriage.

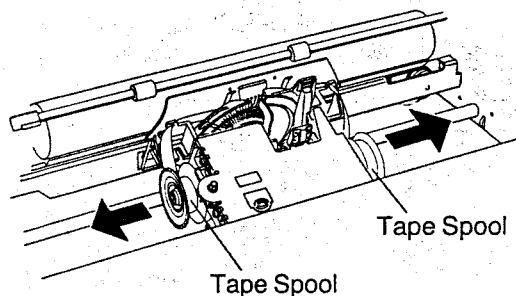


- 4 Advance the tension knob on the cassette counter-clockwise until the ribbon slack is removed.

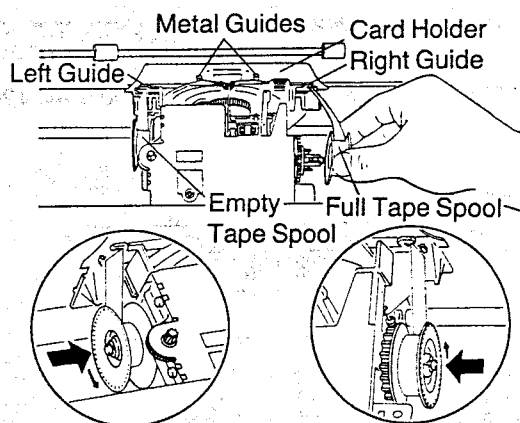
Press the **CODE+K** keys to initialize the carriage, if you change the ribbon cassette without turn off the **POWER** switch.

## 1-4 CHANGING THE CORRECTION TAPE

- 1** After turning the **POWER** switch off, to replace the correction tape, lift out the typing ribbon cassette (see "1-3 CHANGING THE RIBBON CASSETTE") and remove the two spools of the lift-off tape by pulling them outward.



- 2** Place the empty spool of new tape on the left pin so that the tape winds counter-clockwise. Place the tape around the left guide and behind both metal guides. Pull the tape around the right guide and place the loaded spool on the right pin so that the tape unwinds counter-clockwise.



- 3** Manually turn the left-hand spool in the counter-clockwise direction, tightening the tape until resistance is felt.
- 4** Replace the typing ribbon cassette.

Press the **CODE+K** keys to initialize the carriage, if you change the correction tape without turn off the **POWER** switch.

\* After changing the correction tape, confirm that the correctable (rough) side of the tape faces toward the platen.

## 1-5 CHANGING THE DAISYWHEEL

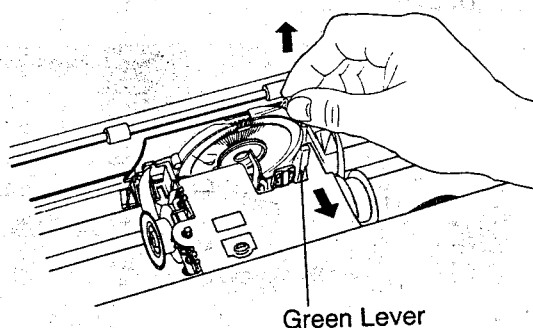
You can remove the daisywheel without removing the ribbon cassette.

You will see a green lever on the right side of the carriage. Pull this lever toward you and lift out the plastic cartridge of the daisywheel.

After turning the **POWER** switch off, to insert the daisywheel, place the plastic cartridge in the carriage with the characters facing toward the platen. Push the green lever back into position.

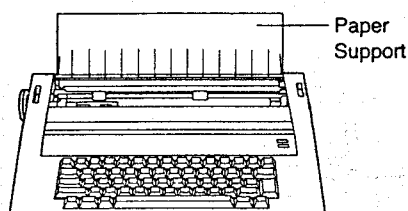
Press the **CODE+K** keys to initialize the carriage, if you change the daisywheel without turning off the **POWER** switch.

If you experience trouble locking the daisywheel into place, make sure it is pressed down as far as possible. Then, push the locking lever forward again.

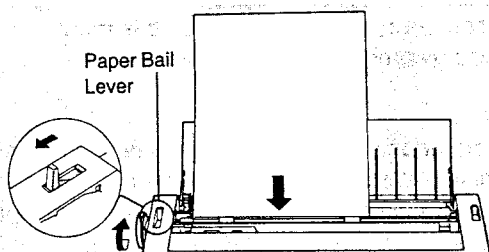


# 1-6 INSERTING THE PAPER

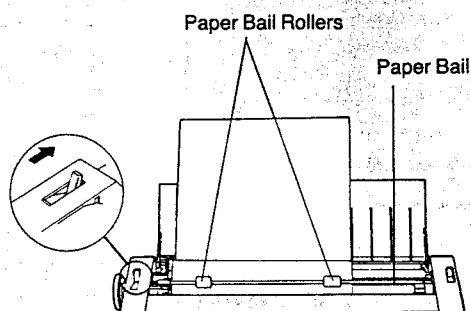
- 1 Open the paper support.



- 2 Insert the paper straight behind the platen. Use the markings on the paper support as a guide.
- 3 Pull the paper bail lever towards you. While keeping the left edge of the paper in line with the scale, press the **CODE+RETURN** keys. Your paper is automatically positioned at line 7. Should you wish to change the point of insertion. Use the **RETURN**, **INDEX** (↓), **REVERSE INDEX** (↑) keys or turn the platen knob to move the carriage to the desired position.

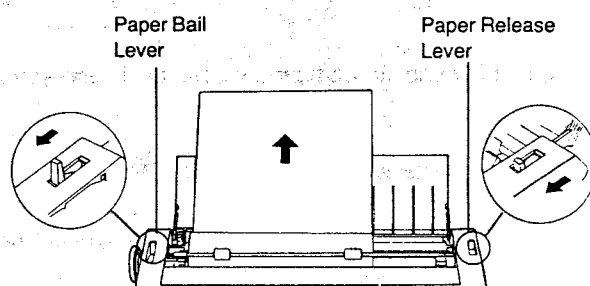


- 4 Return the paper bail levers to their original positions and then position the paper bail rollers to hold down the paper.

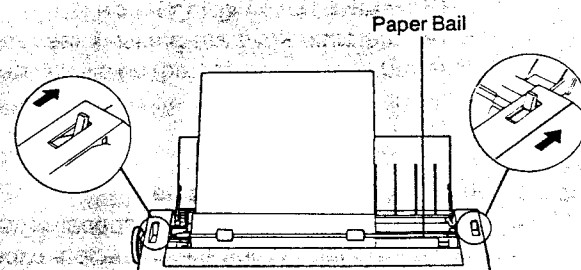


**NOTE:** If there are any slack in the paper, proper printing and correction will not be possible. Hold the paper by the top edges and pull up to remove any slack. Please do the following.

Pull the paper bail and paper release lever toward you and adjust the paper.

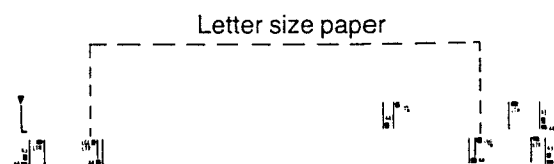


Return the paper release and paper bail levers to their original position.



\*Your typewriter has a 12" paper width capacity.

For your convenience several scales have been marked on the paper support. Align the left edge of the paper with the appropriate marking.



## 2-1 SETTINGS

The unit will automatically set typing mode, pitch, line spacing, and keyboard as set when the unit was last used.

If you want to change the setting, simply do the following.

### NOTE:

First, press the **CODE+3, 4, 5, or 6** keys.

For example, the display will show:

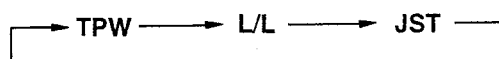
MODE	PITCH	LINE SP	KB
TPW	10	1	I

2

After the display shows the typing mode, pitch, line spacing, and keyboard settings, you can change each function as follows.

### Selecting typing mode (TPW • L/L • JST)

Every time you press the “3” key, the typing mode changes as shown.



#### Typewriter (TPW) Mode

The characters entered will be printed immediately. You can set margins and tabs in this mode. You can select either NORM or AUTO carriage return in this mode by pressing **CODE+A**.

#### LINE by LINE (L/L) Typing Mode

When character keys are pressed, the respective characters appear on the display and can be edited (inserted, deleted, corrected) on display before they are printed. When typing a character after entering a “Hyphen” or “Space” within the “Hot Zone” or beyond the “Right Margin”, Automatic Carriage Return will occur.

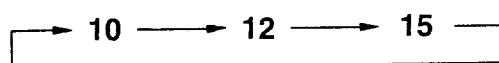
#### Justify (JST) Printing Mode

The typed characters will first appear on the display at which time the character can be edited before they are printed. When the characters exceed the right margin, the typewriter will start printing the line up to the last word within the right margin, aligning the last character of each line at the right margin and returning the carriage automatically.

To print a line which does not reach the right margin, press the **RETURN** key.

### Selecting Pitch (10 • 12 • 15)

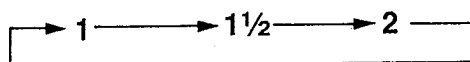
Every time you press the “4” key, the pitch changes as shown.



- 10. .... 10 characters per inch (2.54 cm) or 100 characters per line can be printed.
- 12. .... 12 characters per inch (2.54 cm) or 120 characters per line can be printed.
- 15. .... 15 characters per inch (2.54 cm) or 150 characters per line can be printed.

## Selecting Line Spacing (1 • 1½ • 2)

Every time you press the “5” key, the line spacing changes as shown.



1..... Paper is fed one line.

1½..... Paper is fed one and a half line.

2..... Paper is fed two lines.

- When the platen knob is rotated manually, one click moves the platen one half line.

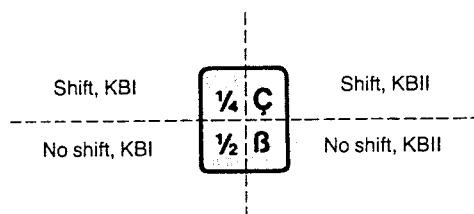
## Selecting keyboard (KB I • KB II)

Every time you press the “6” key, the keyboard setting changes as shown.



**KB I**..... The characters and symbols on the left side of the key can be typed.

**KB II**..... The characters and symbols on the right side of the key can be typed.



- “Dead” keys

These five accent symbols (¨ ´ ^ ~) can only be used with the characters shown. They will not be printed until the character, which is to fall below, is pressed.

äëïöü	ÄËÏÖÜ
áéíóú	ÁÉÍÓÚ
àèìòù	ÀÈÌÒÙ
âêîôû	ÂÊÎÔÛ
ãõñ	ÃÕÑ

After you finish selecting the typing mode, pitch, line spacing, and keyboard setting, press the **RETURN** key.

## 2-2 USING THE TYPEWRITER

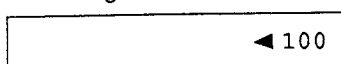
This section introduces you to the fundamental operations of the Panasonic KX-R540. Read through it and do the exercises to familiarize yourself with each operation.

### A Procedure for Typing

- 1 Open the paper support and front plate and confirm that the ribbon cassette, correction tape and daisywheel are properly installed on the carriage.  
Remove the ribbon cassette stopper and carriage stopper if you have not already done so.

- 2 Connect the AC power cord to a household AC outlet.

- 3 Turn ON the **POWER** switch. The display shows the indicator arrow (◀) and the number of characters available on the writing line.



- 4 Insert the paper behind the platen and press the **CODE+RETURN** keys.

Now you can begin typing.

- 5 Type the following characters.
  - When the "TPW" mode is selected, the characters will be printed on the paper immediately.

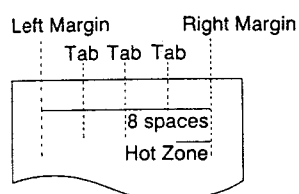
Typewriter

- When the "L/L" or "JST" mode is selected, the characters will appear on the display. Press the **RETURN** key to print them.

You will now learn how to use the typewriter to perform simple operations.

Read the following descriptions thoroughly in order to make the most effective use of the functions of the KX-R540.

### B Margin Formats

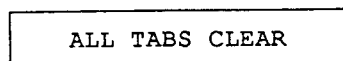


When you turn ON the **POWER** switch, the margin formats (margins and tabs) which were previously stored will automatically be set.

If you want to change this margin format, simply do the following:

### To Clear All Tabs

- 1 **CODE** + **TAB CLR**

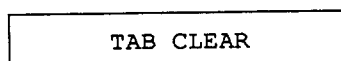


Press the **CODE+TAB CLR** keys. The display will show "ALL TABS CLEAR" for one second.

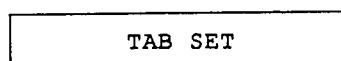
The unit clears all tabs at once.

The carriage moves to the left margin and clears the entire line format (all tabs).






- Should you want to change a TAB stop, press the **TAB** key to move the carriage to the tab position to be cleared, and press the **TAB CLR** key. The display will show "TAB CLEAR" for one second.








To set a TAB, press the **TAB SET** key when the carriage is at the desired position. The display will show "TAB SET" for one second.




## To Set Margins and Tabs

- 1  +  Press the **CODE+TAB CLR** keys.  
Clear the current tabs. Refer to "To Clear All Tabs".
- 2  /  Press the **SPACE BAR** or **BACKSPACE** key to move the carriage to the desired left margin position.  
If necessary, press the **MAR REL** key to by-pass a previously set margin.
- 3  Press the **L MAR** key to set the left margin.  
The display will show "L.M. SET" for one second.  

L.M. SET
- 4  Press the **SPACE BAR** until you reach the first desired TAB stop.
- 5  Press the **TAB SET** key to set the first TAB stop.  
The display will show "TAB SET" for one second.  

TAB SET
- 6 Repeat steps 4 and 5. Repeat steps 4 and 5 for each desired TAB stop. Remember that the maximum number of TAB stops is 13.
- 7  /  Press the **SPACE BAR** or **BACKSPACE** key to move the carriage to the desired right margin position.  
If necessary, press the **MAR REL** key to by-pass a previously set margin.
- 8  Press the **R MAR** key to set the right margin.  
The display will show "R.M. SET" for one second.  

R.M. SET
- 9  Press the **RETURN** key to move the carriage to the left margin on the next line.

**Example:** Set the margins and tabs as follows:

- ❶ Set the left margin at 15
- ❷ Set the first TAB at 30
- ❸ Set the second TAB at 45
- ❹ Set the third TAB at 60
- ❺ Set the right margin at 75

## C Hot Zone

The "Hot Zone" is preprogrammed in the machine at 8 spaces from the right margin. When the carriage enters the "Hot Zone", you will hear the buzzer which indicates that the right margin is approaching.

## D Using the Display

This typewriter has a 15 character liquid crystal display (LCD) which acts as an operator prompt, allowing you to correct, edit, move or delete information.

When typing, most errors are "felt" by the operator. Through the use of the display, you can check if there are errors and correct them before they are printed.

In order to activate the display, select the "L/L" or "JST" typing mode.

## 2 Display Messages

The display will give you certain messages to guide you through your projects. As you proceed through the exercises in this manual, these messages will become second nature to you..

(On p.48 and 49 you will find a list of all the display prompts.)

## Display Symbols

As you begin the exercises, you will see various symbols on the display. These symbols indicate certain functions and are listed below to help you understand what you are seeing.

You are not expected to memorize these symbols. As you proceed through this book, you will become familiar with them and understand how they relate to the various functions you are asking your typewriter to perform.

◀	Indicator Arrow	□	{ Open/Close of Block Move, Copy or Delete Separate Mark
↵	Manual Return	≡	Paragraph Indent
▣	Beginning of Text	—	Temporary Hyphen
■	Bold Mode Start	—	Permanent Space
◼	{ Bold Mode End Bold Print is in operation	→	Tab Command
P	No Print	▶	Continuous Underline Mode Start
C	Centering	◀	{ Continuous Underline Mode End Continuous Underline is in operation
D	Decimal Tabulation	◼	{ Bold Print and Continuous Underline are in operation
S	Stop Code	▶	Word by Word Underline Mode Start
R	Right Margin Flush	◀	{ Word by Word Underline Mode End Word by Word Underline is in operation
M	Manual Correction	◼	{ Bold Print and Word by Word Underline are in operation
↓	Index Command		
↑	Reverse Index Command		
--	Half Space		
---	Micro Spacing		



## E Index and Reverse Index

The **INDEX** ( $\downarrow$ ) key allows you to move the paper  $\frac{1}{2}$  line toward the bottom of the page. The **REVERSE INDEX** ( $\uparrow$ ) key allow you to move the paper  $\frac{1}{2}$  line toward the top of the page.

These keys are used for the typing of superscripts (e.g.  $10^3$ ) and subscripts (e.g.  $\log_{10} 1000$ ). You will also use them during correction.

The 4<sup>th</sup> of July is Independence Day.

1 Type "The 4".

To type this sentence, you would first enter "The 4" and then:

2 

Press the **REVERSE INDEX** ( $\uparrow$ ) key and type "th".

3 

Press the **INDEX** ( $\downarrow$ ) key to reposition the carriage on the actual typing line.

Continue typing. To type a subscript, reverse the keystroke order.

## F Correction

### To Correct Errors on the Current Line

The unit has a one line correction memory so you can delete characters on the current line automatically with one simple operation.

1 

To erase the last printed character on the current line:

Press the **CANCEL** ( $\boxtimes$ ) key to "lift" the incorrect character off the paper. If you press the **CANCEL** ( $\boxtimes$ ) key again or the **RPT** key the next character will be erased.

•To erase characters towards the beginning of the line, press the **CODE+RELOC** keys, the **SPACE BAR** or the **BACKSPACE** key and position the carriage so that the character to be erased is aligned between the two vertical lines on the top of the Card (Plastic) Scale.  
Press the **CANCEL** ( $\boxtimes$ ) key.

2 Type the correct character(s).

3 

Press the **RELOC** key after making the correction to move the carriage back to the end of the line.

### To Make Manual Corrections on a Previous Line

To erase characters on previous lines.

1  + 






Press the **CODE+CANCEL** ( $\boxtimes$ ) keys to enter the manual correction mode. The carriage will automatically move to the left margin to allow you to begin making corrections. The display will show the symbol "**M**".

2 



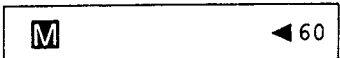


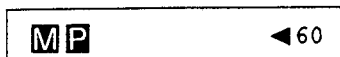




Press the **REVERSE INDEX** ( $\uparrow$ ) key to position the carriage on the line with the error.

3 Position the carriage over the error.

- 4  +  Press the **CODE+CANCEL** (X) keys.
- 5 Retype the incorrect character. This will lift the character off the paper.
- 6 Type the correct character.
  - Repeat steps 2-6 to correct errors on another line.
  - Repeat steps 3-6 to correct another character on the same line.
- 7  Press the **RELOC** key.  
This will position the carriage to the end of the last line.  
The symbol "**M**" will disappear from the display.

## 2 Disabling Print When Making Manual Corrections

The **PRINT** key may be used to make manual corrections.  
This feature is especially helpful when making many corrections successively.

- 1  +  Press the **CODE+CANCEL** (X) keys.  
The carriage will automatically return to the left margin.  
The display will show the symbol "**M**".  

- 2  Press the **REVERSE INDEX** (↑) key to position the carriage at the beginning of the line on which the correction is to be made.
- 3  Press the **PRINT** key.  

- 4 Position the carriage over the error.
- 5 Retype the error. This information has now been entered back into memory but has not reprinted on the paper.
- 6  Press the **PRINT** key.
- 7  /  Press the **CANCEL** (X) or **QUICK ERASE** key to delete the entered characters.
- 8 Type the correct character. •Repeat steps 2-8 for each error to be corrected.
- 9  Press the **RELOC** key.  
This will position the carriage to the right of the character printed last before correction. The symbol "**M**" will disappear from the display.

In the Justify Printing Mode:

- Perform the steps 1~2.
- Press the **PRINT** key.
- Retype the entire line with the error, and continue typing the line until the carriage reaches the right margin. It is necessary to type beyond the error line so that the typewriter can perform its justification.
- Press the **BACKSPACE** or **SPACE BAR** to position the carriage on the error.
- Press the **CANCEL** (X) key to delete the error.
- Type the correct characters.
- Press the **PRINT** or **RETURN** key.

## To Make Corrections on the Display

Select the "L/L" or "JST" typing mode. This will activate the display. As you type, the descending line counter will count down for each character key depression, letting you know how many more characters may be entered on the current line.

Enter the following information including the errors. Do not press the RETURN key at the end of the line.

"Errors are corrected before tehy are printed on paper."

The display will show:

d on paper. ◀ 6

1



Press the **BACKSPACE** key to position the error to the left of the indicator. (◀)

before teh ◀ 29

2



Press the **CANCEL** (X) key to delete the incorrect characters.

ed before t ◀ 31

3

Enter the correct characters.

before the ◀ 29

4



Press the **FWD** key to move toward the next error or to the end of the line.

5



Press the **RETURN** key to print the information you have typed.

- If the error is located toward the beginning of the line, you may use the **CODE+RELOC** keys instead of the **BACKSPACE** key. To reposition the carriage at the end of the line, use the **RELOC** key instead of the **FWD** key.

## To Erase One Word at a Time

The **QUICK ERASE** key may be used to speed up correction by deleting one word on the paper or the display at a time.

1



/



/

**SPACE BAR**

Press the **BACKSPACE** or **FWD** key or the **SPACE BAR** to position the carriage one character to the right of the incorrect word.

- If you have pressed the **SPACE BAR** after typing an incorrect word, make sure to press the **BACKSPACE** key before pressing the **QUICK ERASE** key.

2








Press the **QUICK ERASE** key.

3

Type the correct word.

## To Erase One Line at a Time

This function may be used to speed up correction by deleting one entire line on the paper or the display at once.

- 1  /  /  Press the **BACKSPACE** or **FWD** key or the **SPACE BAR** to locate the last character of the line to be deleted.
- 2  +  Press the **CODE+QUICK ERASE** keys.  
The typewriter will delete an entire line at a time.  
• If you want to stop deleting information in the middle of the line, press the **PRINT** key.  
The display will show: 

CONTINUE Y/N?

2

To continue deleting:



Press the "Y" key.

To exit the deleting command:



Press the "N" key.

- 3 Retype new information.

## G Bold Print



- 1  +   

xx 60



  
xx Press the **CODE+B** keys.  
The display will show "xx".  
• The mode status indicator for "Bold" is displayed.
- 2 Type your information. As you type the characters, they will be printed in bold face. **Panasonic**
- 3  +  Press the **CODE+B** keys to cancel the command.  
• When the "L/L" or "JST" typing mode is selected, the symbol "B" is displayed in front of and the symbol "B" is displayed behind the characters to be bold.

## H Underlining

### Continuous Underlining

- 1  +   

xx 60



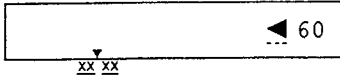
  
xx Press the **CODE+U** keys.  
The display will show "xx".  
• The mode status indicator for "Continuous Underlining" is displayed.
- 2 Type your information. All characters and spaces will be underlined. Electronic Typewriter
- 3  +   

abc def 53

 Press the **CODE+U** keys to cancel the command.  
• When the "L/L" or "JST" typing mode is selected, the symbol "B" is displayed in front of and the symbol "B" is displayed behind the information to be underlined.

• When the bold print command is set together with continuous underlining, the symbol "B" will be shown on the display.



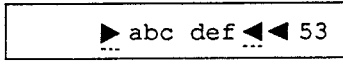
## Word by Word Underlining

- 1  +   


Press the **CODE+W** keys.  
 The display will show "◀".

  - The mode status indicator for "word by word underlining" is displayed.
- 2 Type your information.  

Only characters will be underlined.  
 •Spaces will not be underlined.

Electronic Typewriter
- 3  +   


Press the **CODE+W** keys to cancel the command.

  - When the "L/L" or "JST" typing mode is selected, the symbol "▶" is displayed in front of and the symbol "◀" is displayed behind the information to be underlined.




▶ abc def ◀◀ 53

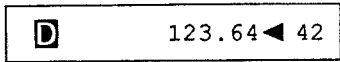
  - When the bold print command is set together with word by word underlining, the symbol "■" will be shown on the display.



## Decimal Tabulation

The unit will automatically align decimal points at the preset tab stops and eliminates the need to space to the correct starting position in a column.

This function also can be used when typing formats which include characters.

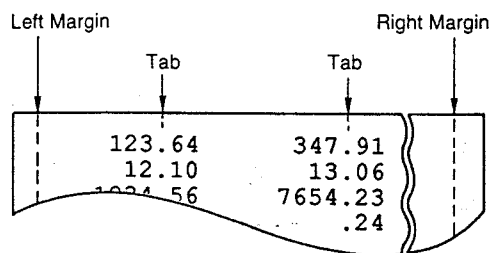
- 1  +   


Press the **CODE+TAB** keys.  
 The carriage will move to the first tab position and the display will show "D".
- 2 Enter the numbers and decimal point.  


The entry can be seen on the display.
- 3  +   

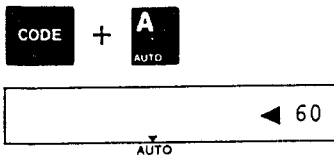
Press the **CODE+TAB** keys.  
 The first column will be printed so that the decimal point is positioned on the first tab stop and the carriage will move to the next tab position.  
 Repeat the above two steps until you have completed all of your column entries.

  - After entering the last number, press the **RETURN**, **TAB**, or **PRINT** key to execute printing.
  - To terminate the Decimal Tabulation command, while "D" is on the display as shown in steps 1 and 2, press the **CANCEL** (⊗) key.



## J Carriage Return (NORM-AUTO)

The **CODE+A** keys select whether a carriage return is made automatically or normally in the "Hot Zone".



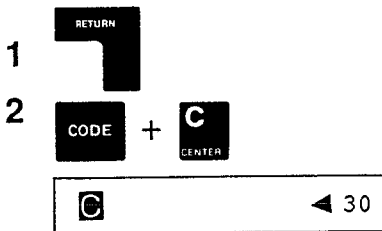
**NORM:** Printing stops at the right margin.

**AUTO:** When a character after entering a "Hyphen" or "Space" is entered within the "Hot Zone", the carriage automatically returns to the left margin or the paragraph indent position of the next line.

- When the automatic carriage return mode is set, the mode status indicator is displayed.
- When the "L/L" typing mode is selected, the carriage always returns automatically whether you set the automatic carriage return or not.

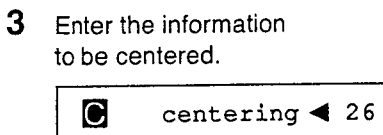
## 2 K Centering

### Between Margins

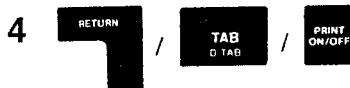


Press the **RETURN** key to position the carriage at the left margin.

Press the **CODE+C** keys to move the carriage to the center of the margins. The display will show "C".



The characters will appear on the display.

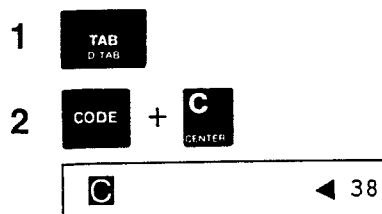


Press the **RETURN**, **TAB**, or **PRINT** key.

The information entered will be printed between the margins\* and the centering command will be canceled.

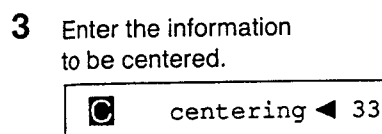
\* When the indent function is in operation, centering is performed between the indented position and the right margin.

### Between Tab Stops



Press the **TAB** key to position the carriage at the left side tab position of the column you want to center in.

Press the **CODE+C** keys to move the carriage to the center of the tab stops. The display will show "C".





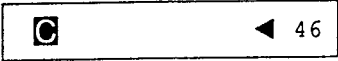
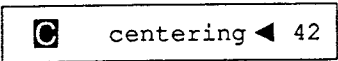

The typed characters will appear on the display.



Press the **RETURN**, **TAB**, or **PRINT** key.





The information entered will be printed between the tab stops and the centering command will be canceled.

## Over a Specified Point

- 1  Press the **SPACE BAR** to move the carriage to the desired position.
- 2  Press the **CODE+C** keys.  
The display will show "C".  

- 3 Enter the information to be centered. The characters will appear on the display.  

- 4  Press the **RETURN**, **TAB**, or **PRINT** key.  
The information entered will be printed and the centering command will be canceled.


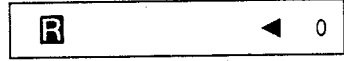
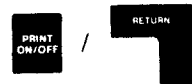
## Auto Half Space

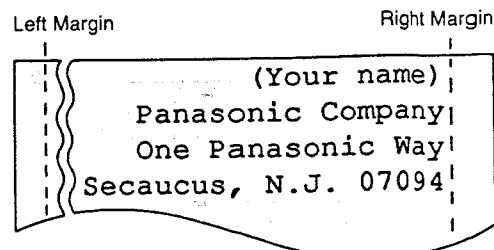
You can automatically correct a word within memory with one that has one character more or any amount of characters less than the original word.

- 1 Locate the carriage on the error.
- 2  Press the **CANCEL** (X) or **QUICK ERASE** key to delete the incorrect characters.
- 3  Press the **CODE+C** keys to activate the auto half space.  
The display will show "C".  

- 4 Type the correct characters.
- 5  Press the **RETURN**, **TAB**, or **PRINT** key.  
The characters entered will be printed.

## L Right Margin Flush



This command instructs the unit to print the information with the last character of each line aligned at the right margin.




- 1  Press the **CODE+R** keys to move the carriage to the right margin.  
The display will show "R".  

- 2 Enter the information.
- 3  Press the **PRINT** or **RETURN** key.  
The characters will be printed with the last character right margin flush. The command will then be canceled.




## M Paragraph Indent




This command provides you with the ability to set a temporary left margin and eliminates the need to position the carriage to an indented location on every line.

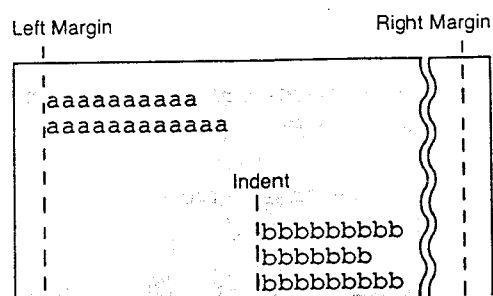
1  /  Press the **TAB** key or the **SPACE BAR** to move the carriage to the desired indented position.

2  +   
 Press the **CODE+I** keys.  
 This sets the indented (temporary left margin) position.  
 The display will show "P".  
 •The mode status indicator for "Paragraph Indent" is displayed.

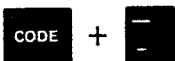
2 3 Type the characters.  
 Press the **RETURN** key.  
 The carriage moves to the indented position on the next line.

4 Continue typing.

5  +   
 Press the **CODE+I** keys again to cancel the command.  
 The carriage will move to the original left margin when the **RETURN** key is pressed.



## N Permanent Hyphen

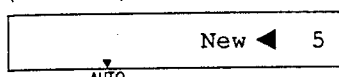




If you press the **CODE+HYPHEN (-)** keys within the "Hot Zone", when the automatic carriage return is activated, the unit will continue printing without generating an automatic return. This coded hyphen is called a "Permanent Hyphen". It is indicated by the symbol "-" on the display and will be printed at the same point every time you print this text.

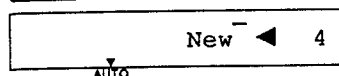
## O Permanent Space

Since your unit allows you to print with automatic returns or with a justified margin, there may be times you do not want to separate characters or words. The unit allows you to set a "Permanent Space" between characters and will not separate them when printing with variable line lengths.

1 Type the first word.  
 (For example, New)

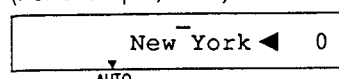


2  +  Press the **CODE** key+**SPACE BAR**.  
 The display will show "-".



3 Type the second word.  
 (For example, York)





When the characters are printed, the unit will recognize the two words as one and will not separate them.



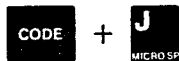


## P Caps Lock

Use Caps Lock to set the unit for typing capital letters, lower case numbers, punctuation marks and symbols. In this mode, the **SHIFT** key will call for opposite characters to be entered.

- 1  +  comes on  
Press the **CODE+LOCK** keys.  
The shift indicator will come on and the caps lock mode is activated.
- 2 Type the text.
- 3  +  goes off  
Press the **CODE+LOCK** keys again to cancel the command.  
The shift indicator will go off and the caps lock mode will be canceled.

## Q Micro Spacing



Press the **CODE+J** keys.  
The carriage moves  $\frac{1}{60}$  inch.  
You may use this function to "squeeze" characters together.  
In the "L/L" and "JST" mode, the symbol "---" will appear on the display.

## R Half Space



Pressing the **CODE+H** keys reduces the normal carriage spacing by one half.  
In the "L/L" and "JST" mode, the symbol "---" will appear on the display.

## S Typing Impression Control

This controls the impact of the printed characters. Select the impression level that is most suited for your needs. Each time the **CODE+L** keys are pressed, the typing impression level will change. A typing impression level of 1, 2 or 3 can be selected.



IMPRESSION: #  
(#: desired number.)

Press the **CODE+L** keys.  
The display will show "IMPRESSION: #".

- \* "IMPRESSION: 1" is softer than "IMPRESSION: 3".
- \* At first, try "IMPRESSION: 1" and if you feel the impression is too soft, try "IMPRESSION: 2" or "IMPRESSION: 3".

## 2-3 AUTO COLUMN

This function is used to make a table (ruled form). You can set between 2 and 12 columns and it will automatically center them between the left and right margins.

1 

AUTO COLUMN

HOW MANY? 2-12

Press the **AUTO COLUMN** key.  
The display will show "AUTO COLUMN".

After one second, the display will show "HOW MANY? 2-12".

2 Enter the required number.

4 COL. [MAX 12]

Enter the required number of columns.

For example, enter 4. The display will then show the number of columns and the maximum number of characters per column.

If you want to change the number, press the **CANCEL** (⊗) key and then enter the new number.

3



HEADING Y/N?  
P INDENT

Press the **RETURN** key.

First, a line of the designated width will be typed. Next, the display will show "HEADING Y/N?".

("HEADING" means "Age", "N", "Smoker", "Non smoker" in the example on page 27.)

4

 / 

1:  
P INDENT

Press the "Y" key to type a heading.

Press the "N" key not to type a heading and go to step 9.

5 Type the heading for the first column.

1: Age  
P INDENT

6

 / 

2:  
P INDENT

Press the **RETURN**, or **TAB** key.

The first column's heading will be printed at the center of the column and display will show "2:".

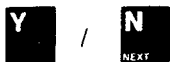
7 Repeat steps 5 and 6.

 / 

HEADING Y/N?  
P INDENT

When the **RETURN** or **TAB** key is pressed after entering the heading of the last column, the display will show "HEADING Y/N?".

8



Pressing the "Y" key will allow you to enter an additional line to each column's heading.  
Repeat steps 5 and 6 for each column.

Press the "N" key if you wish to begin entering each column's data. A line equal to the width of the table will be typed beneath the headings, and the display will show "INPUT DATA".

INPUT DATA  
P INDENT

After one second, the display will show "1:".

1:  
P INDENT

9 Type the data for each column.

1: Twenties  
P INDENT

10



Press the **RETURN** or **TAB** key.  
The data for the first column will be printed in the center of the column.

11 Repeat steps 9 and 10 and type all of the data.

12



END

Press the **AUTO COLUMN** key.  
A line indicating the end of the table will be typed, the display will show "END".

Centering is performed in each column.  
However, if numerical data is typed, a decimal point will take priority.

Age	N	Smoker	Non smoker
Twenties	1,722	30	70
Thirties	2,012	37.1	62.9
Forties	1,928	35.5	64.5
Fifties	1,646	30.5	69.5

The maximum width of one column is equal to 14 characters. Consequently, if there are only a small number of columns, the table will appear at the center of the page without extending to the margins.

In each column, a maximum of 12 characters can be printed. The number of characters is 2 characters less than the column width. If this number of characters is exceeded, the buzzer will sound and further input will not be accepted. If the margin is too small to print characters, the buzzer will sound and the display will show:

CHECK WIDTH!!

Print-out will be prevented. In this case, select the number of columns again or reset the margin width.

Accu-Spell Plus can be performed in the Auto Column Mode. Misspelled words will not be printed even if the **RETURN** key is pressed again.

To perform left flush in a column, type the data and then hold the space bar down until the buzzer sounds. When the **TAB** or **RETURN** key is pressed, the data will be printed left flush.

\* While performing this function, do not change the pitch.

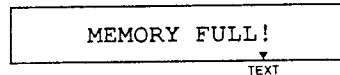
2

## 3-1 MEMORY

Your typewriter has an internal memory of 8,000 characters which you can use to store texts to be recalled as you wish.

The Text Memory is used for lengthy documents or projects requiring editing or repetitive printing.

When your typewriter has reached the maximum storage capacity of 8,000 characters, the buzzer will sound every time a key is pressed and the display will indicate the following.



At this time, you will be required to delete portions of the memory, which are no longer needed to continue with your current project.

Deletion of memory contents will be discussed later in this manual.

## 3-2 TEXT MEMORY

The text memory allows you to enter documents which would require revisions, repetitive print-out, insertion of variable information or width changes. With this memory you may store documents that are either short or lengthy.

You can also enter special functions such as tab, decimal tab, and indent commands as well as centering, bold print, and underlining.

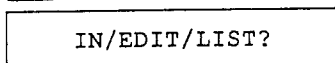
3

1



Press the **TEXT** key.

The display on your typewriter will ask "IN/EDIT/LIST?".



2



Press the **"I"** key when you are;

- creating the initial text
- continuing (adding) to the end of the text.



Press the **"E"** key when you are;

- recalling a text for modification
- recalling a text to print it
- listing the text names in memory on the display
- deleting a text from memory
- renaming a text



Press the **"L"** key when you are;

- requesting a printed list of text names in memory

## A To Store Information in the Text Memory

1



Press the **TEXT** key.  
The display will show "IN/EDIT/LIST?".

IN/EDIT/LIST?

2



Since you are entering information into the text memory.  
Press the "I" key. The display will show "TEXT=".

TEXT=

3

Enter the text name.  
(maximum 10 characters)

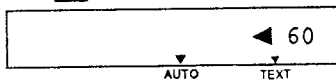
Name the text as you wish (For example, "TEST 1"). The display will show:

TEXT= TEST 1

4



Press the **RETURN** key.  
The mode status indicator for "Text" will be displayed, and the number of characters you have available on the writing line.



5

Enter the information.

**Example:** "The quick yellow fox jumps over the lazy dog. It is true, but if"

- The way the text is printed depends on the typing mode:

**In the "TPW" mode:**

As you type, the characters are printed on the paper with an automatic return.

**In the "L/L" or "JST" mode:**

As you type, the characters are shown on the display and each line will be printed after the **RETURN**, **PRINT**, or **TAB** key is pressed or **AUTOMATIC RETURN** is performed.

6



When finished, press the **TEXT** key again to store the information and close the text.

- The carriage will move to the left margin when the text is closed.

When entering the text names, all characters will appear in capital letters no matter how you type them.

A minimum storage capacity of 47 bytes (characters) is necessary to store a text.

Always press the **TEXT** key before leaving the text memory mode. Switching the power off will not automatically close a text, and loss of the contents of that text will occur.

## B To Add to an Existing Text

1 

Press the **TEXT** key.  
The display will show "IN/EDIT/LIST?".

IN/EDIT/LIST?

2 

Press the "I" key.  
The display will show "TEXT=".

TEXT=

3 Enter the text name to be recalled.

4 

Press the **RETURN** key.  
The display will show "CONT. TEXT Y/N?".

CONT. TEXT Y/N?

3 5  / 

Press the "Y" key.

Press the "N" key to go back to step 2.

6 Continue typing.

This positions you at the end of the text.  
Continue typing as you did while storing.

\* You cannot scroll backwards through the text at this time, using the **BACK-SPACE** key, etc. You may only continue where you left off.

7 

Press the **TEXT** key again to store the added information and close the text.

## C To Print a Text from Memory

You have entered your document into memory and now want to print it.

1 

Press the **TEXT** key.  
The display will show "IN/EDIT/LIST?".

IN/EDIT/LIST?

2 

Press the "E" key.  
The display will show "TEXT=".

TEXT=

3 Enter the name of the text to be printed.  
(maximum 10 characters)

• If you don't remember the text name, press the **FWD** key, the first text stored in memory will be recalled and the display will show its name.  
Press the **FWD** key to display the next text, or the **BACKSPACE** key to display the previous one.

4



MAR CURR/STOR?



/



(Text Name)

TEXT

Press the **RETURN** key.

The display will show "MAR CURR/STOR?".

If the margin format you want to use is:

•The current format, press the "C" key.

•The format used when the text was stored last, press the "S" key.

The display will show "(Text Name) ".

5



Press the **PRINT** key.

The unit will start printing.

## D To Stop Printing in the Middle of a Text

1

During printing



CONTINUE Y/N?

AUTO

TEXT



/



Press the **PRINT** key during printing.

The display will show "CONTINUE Y/N?".

If you want to continue printing the text:

Press the "Y" key.

If you want to exit the printing mode:

Press the "N" key.

Your typewriter will resume printing from the point on the line where it stopped.

•If you want to reprint from the beginning of the text:

Press the **CODE+RELOC** keys to return to the beginning of the text.

Press the **PRINT** key.

Your typewriter will start printing from the beginning of the text.

3

## E To Print from a Particular Point

1

Recall the text.

Refer to "To Print a Text from Memory." on p.30.

2



/



+



Press the **FWD** key or the **CODE+FWD** keys to locate the desired starting point.

\*Pressing the **CODE+FWD** keys allows you to scroll forward through the first few characters of each line.

3



/



+



Press the **BACKSPACE**, or **CODE+BACKSPACE** keys until the first character to be printed disappears behind the right edge of the LCD.

\*Pressing **CODE+BACKSPACE** keys allows you to scroll backward through the first few characters of each line.

4



Press the **PRINT** key to start printing.

\* The Word Search function (see p.32) will help you to locate the desired word(s) easily.

## F To Modify a Text

1



Press the **TEXT** key.  
The display will show "IN/EDIT/LIST?".

IN/EDIT/LIST?

2



Press the "**E**" key.  
The display will show "TEXT=".

TEXT=

3

Enter the name of the  
text to be modified.  
(maximum 10 characters)

4



Press the **RETURN** key.  
The display will show "MAR CURR/STOR?".

MAR CURR/STOR?

- If you wish to use the current margin setting (format), press the "**C**" key.  
To use the same format as when the text was stored (if different from the current format), press the "**S**" key.

3

(Text Name)   
TEXT

The mode status indicator for "Text" will be displayed, and the text name followed by the symbol "" indicating you are at the beginning of the text.

5



Press the **FWD** or **BACKSPACE** key to position the last character of the word or phrase to be deleted to the right edge of the LCD.

6



Type the new  
characters.

Press the **CANCEL** () key to delete the characters and type the new characters.

7



Press the **TEXT** key again to store the modified information and close the text.

## G Word Search

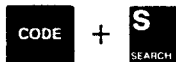
You can locate the word to be corrected directly within a text.

1

Recall the text.

Refer to "To Modify a Text" on this page.

2



Press the **CODE+S** keys.  
The display will show "S-WD=".

S-WD=   
TEXT

3

Enter the word or  
words you are  
searching for.  
(maximum 10 characters)

- Searching for particular characters. To search for a return mark, press the **CODE+RETURN** keys.
- To search for the start mark of the **BOLD** or **UNDERLINE** function, press the **CODE+B** keys for **BOLD** or **CODE+U** or **CODE+W** keys for **UNDERLINE**.
- To search for an end mark of the **BOLD** or **UNDERLINE** function, press the **CODE+B** keys twice for **BOLD** or **CODE+U** or **CODE+W** keys twice for **UNDERLINE**.





Press the **RETURN** key.  
The display will show the word(s) you entered in the search command.  
When the entered word is not included in the text, the display will show:

NOT FOUND !!  
TEXT

- 5 If necessary,  
modify the word.

Press the **BACKSPACE** or **FWD** key to move to the desired position, and press the **CANCEL** (X) key to modify.



To locate the second occurrence of the entered word within the text, press the **CODE+N** keys.

## H Word Replace

There may be times when certain words (such as titles or names) appear very often in a document, and need to be changed. The typewriter can replace words wherever they appear in the text.

- 1 Recall the text.

Refer to "To Modify a Text" on p.32.



Press the **CODE+X** keys.  
The display will show "C-WD=".

C-WD=  
TEXT

- 3 Enter the word you  
want to replace.  
(maximum 10 characters)

Press the **RETURN** key.  
The display will show "R-WD=".



If the word entered is not in the text, the display will show "NOT FOUND!!" for one second and cancel the word replace command.

NOT FOUND !!  
TEXT

R-WD=  
TEXT

Only a word or words, with the following symbols in front of or behind, can be searched for.

- SPACE, CODE+H, CODE+SPACE, CODE+J
- UNDERLINE
- TAB
- DEC TAB
- BOLD, UNDERLINE MARK
- INDENT
- CENTERING
- RIGHT MARGIN FLUSH
- CODE+RETURN
- STOP CODE
- BLOCK MARK

- 4 Enter the word or words  
you want to insert.  
(maximum 10 characters)

Press the **RETURN** key.  
The display will show "CHANGING".



CHANGING  
TEXT

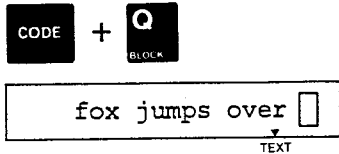
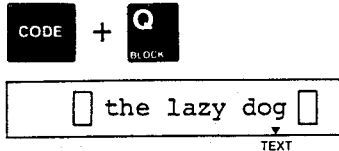
After the changes have been made throughout the text, the display will show the last position in the text where your change was made.

- To enter the start code for the **BOLD** or **UNDERLINE** function, press the **CODE+B**, **CODE+U**, or **CODE+W** keys respectively.
- To enter the end code for the **BOLD** or **UNDERLINE** function, press the **CODE+B**, **CODE+U**, or **CODE+W** keys twice respectively.

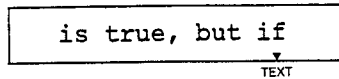
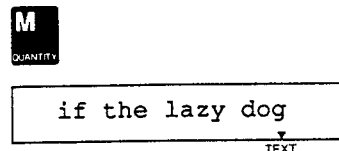
# 1 Block Move, Copy and Delete

When the need to move, copy, or delete a sentence or a paragraph arises, the typewriter can do it simply and automatically.

## Mark a Block

- 1 Recall your text.  
Refer to "To Modify a Text" on p.32.  
The display shows you are at the beginning of the text.
- 2 Search the beginning of the block.  
Press the **FWD**, **CODE+FWD**, **CODE+S**, **BACKSPACE**, or **CODE+BACKSPACE** keys to move the first character of the block to be moved, copied or deleted until it disappears behind the right edge of the LCD.
- 3   
Press the **CODE+Q** keys.  
The display will show a rectangular ( ) symbol just left of the right edge of the LCD, which indicates the beginning of a move, copy, or delete command.
- 4 Search the end of the block.  
Press the **FWD**, **CODE+FWD**, **CODE+S**, **BACKSPACE**, or **CODE+BACKSPACE** keys to position the last character of the block to be moved, copied, or deleted to the right edge of the LCD.
- 5   
Press the **CODE+Q** keys again.  
A second rectangle will appear on the display indicating end of move, copy, or delete command ( ).

## To Move the Information Block

- 1 Mark the block.  
Refer to "Mark a Block" on this page.
- 2 Locate the new position.  
Move to the position where you want to insert the information block which you have just marked, using the **FWD**, **BACKSPACE**, **CODE+BACKSPACE**, or **CODE+FWD** keys.
- 3   
Press the **CODE+Q** keys.  
The display will show "MOVE/COPY/DEL?".
- 4   
Press the "M" key to delete the words inside the marks and move them to the new position.

## To Copy the Information Block

- 1 Mark the block.  
Refer to "Mark a Block" on this page.
- 2 Locate the position.  
Move to the position where you want to copy the information block.  
(Refer to "To Move the Information Block" on this page.)

3 **CODE** + **Q**  
BLOCK

Press the **CODE+Q** keys.  
The display will show "MOVE/COPY/DEL?".

MOVE/COPY/DEL?  
TEXT

4 **C**  
CENTER

Press the "C" keys to copy the information block at the new position.

## To Delete the Information Block

1 Mark the block.

Refer to "Mark a Block" on p.34.

2 **CODE** + **Q**  
BLOCK

Press the **CODE+Q** keys.  
The display will show "MOVE/COPY/DEL?".

MOVE/COPY/DEL?  
TEXT

3 **D**

Press the "D" key to delete the information block.

fox jumps over  
TEXT

## J To Insert or Append a Text into Another Text

1 Recall the text you wish  
to insert/append into.

Refer to "To Modify a Text" on p.32.  
The display will show you are at the beginning of the text.

2 **FWD** / **CODE** + **FWD**  
BLOCK  
**CODE** + **S**  
SEARCH  
**BACK SPACE** / **CODE** + **BACK SPACE**  
BLOCK

Press the **FWD**, **CODE+FWD**, **CODE+S**, **BACKSPACE**, or **CODE+BACK-SPACE** keys to move to the position where you want to insert another text.

3 **CODE** + **T**  
APPEND

Press the **CODE+T** keys.  
The display will show "COPY=".

COPY=  
TEXT

4 Enter the text name you want  
inserted/appended into the  
current text.  
(maximum 10 characters)

5 **RETURN**

Press the **RETURN** key.  
The display will show the last position of the inserted/appended text.

## K To Rename a Text

- 1 Recall the text.

Refer to "To Modify a Text" on p.32.  
The display will indicate the beginning of the text.

- 2  + 

Press the "CODE+O" keys.  
The display will show "NEW=".

NEW=

▼  
TEXT

- 3 Enter the new name.  
(maximum 10 characters)

- 4 

Press the RETURN key.

ALREADY EXISTS

▼  
TEXT

If the name you just entered is already being used, the display will show "ALREADY EXISTS".

- 5 

Press the TEXT key to close the text.

3

Your text is now renamed. In the future, the new text name should be used because the original is no longer in memory.

## L To List Texts on the Display

There may be times when you need to know the names of the texts which are stored in memory.

- 1 

Press the TEXT key.  
The display will show "IN/EDIT/LIST?".

IN/EDIT/LIST?

- 2 

Press the "E" key.  
The display will show "TEXT=".

TEXT=

- 3  / 

Press the FWD or BACKSPACE key to begin listing the text names on the display.


Your display will show the name of the first text which you have in memory.


- Continue pressing the FWD key to scroll forward through the remaining text names.
- Press the BACKSPACE key to scroll backward through the text names.
- When you have reached the last text in memory, your typewriter will beep to indicate "End of Memory".
- To select a text to edit or print, press the RETURN key when the correct text name is displayed.

- 4 

Press the TEXT key to exit from the text listing mode.

## M To Print the Text Listing



- 1  Press the **TEXT** key.  
The display will show "IN/EDIT/LIST?".

IN/EDIT/LIST?
- 2  Press the "L" key.  
The display will show "PRINTING".  
The names of the texts in memory will be printed on the paper.  
•The amount of available memory will also be printed.

PRINTING




AUTO

## N Memory Left



-  +  Occasionally you will want to know how much memory is available before entering a new text.  
Press the **CODE+M** keys. The display will show the number of characters available for one second.
- ##### CHR. LEFT  
(#: characters available)

## O To Clear a Text from Memory

When you no longer need a particular text, or need the space to enter a new text, you can delete an old text from memory.

- 1 Recall the text.  
Refer to "To Modify a Text" on p.32.
- 2  +  Press the **CODE+CANCEL** (  ) keys.  
The display will show "CLEAR TEXT Y/N?".




CLEAR TEXT Y/N?

TEXT
- 3  /  Press the "Y" key to delete the text from memory.  
•If you want to exit from this mode without deleting the text, press the "N" key.




## P To Change the Margin Format in the Text

This typewriter allows you to change the margin format in the text memory to the current margin format.

- 1 Recall the text.  
Refer to "To Modify a Text" on p.32.  
Press the "C" key to choose the current margin format.

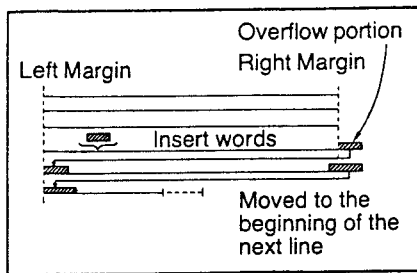

- 2  +  Press the **CODE+V** keys.  
The display will show "CHG FORM Y/N?".

CHG FORM Y/N?

TEXT
- 3  /  Press the "Y" key to store the current margin format in the text.  
Press the "N" key, if you do not want to change the format.
- 4  Press the **TEXT** key to store the text.

## Q Word-Wrap

Word-Wrap means that a word exceeding the right margin will be shifted automatically to the beginning of the next line.

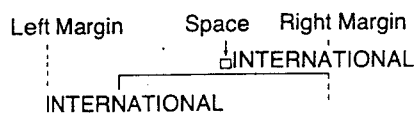


The function starts from the space before the last word which would overflow the right margin. After the insertion of a new word, the last word will be moved to the beginning of the next line.

Word-Wrap will occur within the sentences of each paragraph.

Spaces which fall at the left margin after carriage return with Word-Wrap will be eliminated and printing of the recorded characters will start at the left margin.

### EXAMPLE



## 3 3-3 APPLICATION

### A Stop Code

You may have to type a letter and send it to several different people. Each letter must be personalized and have specific but different information inserted into the body of the text. These different bits of information are referred to as "variables".

Your typewriter will allow you to enter a text and instruct it to stop printing at a particular point so that you may insert the variable within the body of the letter.

This code "to stop printing and insert variables" is called a Stop Code.

### To Store a Text with Stop Codes

- 1 Create the new text. Perform the 1~4 of "To Store Information in the Text Memory" on p.29.
- 2 Begin typing the document.
- 3 When you are at the position within the text where you want to insert variable information:  
Press the **CODE+P** keys.  
The display will show "STOP CODE SET".
- 4 Continue typing. When the "L/L" or "JST" typing mode is selected, the symbol "S" appears on the display at the position where the stop code will be inserted.  
Continue entering the stop codes following the above procedure for all locations where the variables will be inserted.
- 5 When you have completed entering the text, press the **TEXT** key again to store the stop codes and close your text.

## To Print a Text with Stop Codes

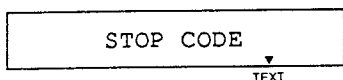
1 Recall the text.

Perform steps 1~4 of "To Print a Text from Memory" on p.30~31 to recall the text.

2



Press the **PRINT** key to print to the point where the first stop code was set. The display will show "STOP CODE".



In the "L/L" or "JST" mode, this message will be displayed for about one second, then the symbol "S" appears on the display at the position where the stop code was set.

3 Enter variable.

Enter your variable which will be inserted in the first position by typing it.

4



Press the **PRINT** key to resume printing.

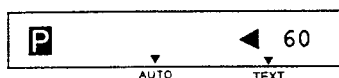
•Continue inserting the variables until you have completed the text.

## B To Store Information with No Print

This typewriter allows you to store texts with the NO PRINT feature. By using this feature you can store information without printing them on the paper.

**When storing in the text memory:**

- Perform steps 1~4 of "To Store Information in the Text Memory" on p.29.
- Press the **PRINT** or **CODE+PRINT** keys. The display will show:



- Perform steps 5~6 of "To Store Information in the Text Memory" on p.29.

When you use the **PRINT** key, the carriage will move corresponding to the typing mode. When you use the **CODE+PRINT** keys, the carriage will not move.

## 4-1 ACCU-SPELL PLUS™ (Spell Verifying/Correcting Feature)

When you misspell a word, Accu-Spell Plus informs you by means of an indication on the display and a buzzer. By using Accu-Spell Plus function, you can easily replace misspelled words with the correct spelling. The typed words are checked against the standard dictionary, which contains about 63,000 words, and a user's dictionary of up to 120 words.

The user's dictionary can be deleted and changed, and a list of the user's dictionary words can be printed or displayed.

- Accu-Spell Plus™ is a trademark of the Spell Correct Function in the U.S.A.

Accu-Spell Plus operates when you make an input from your keyboard.  
It does not work when a text is printing is activated.

International CorrectSpell™ English licensed from Houghton Mifflin Company. U.S. Pat. No. 4,580,241, 4,730,269, and 4,771,401. Copyright© 1985, 1987, 1988, 1989 by Houghton Mifflin. All rights reserved. Reproduction or disassembly of embodied algorithms or database prohibited. Based upon The American Heritage Dictionary. International CorrectSpell™ is an HMCo trademark.

## A Accu-Spell Plus Operation

1 **CODE** + **) 0**

Press the **CODE+0** keys.  
The mode status indicator for "Accu-Spell Plus" will be displayed.

2 Type as usual.

While Accu-Spell Plus is activated, type as usual.

3 **SPACE BAR**



When you end a word (by pressing the **SPACE BAR** or **RETURN** key, etc.), it will be checked.

- If the word is not contained in either the basic dictionary or the user's dictionary, the typewriter will judge it to be a misspelled word, the buzzer will sound, and the word will flash on the display.
- If the word is found in either the basic dictionary or the user's dictionary, the buzzer will not sound and display will remain unchanged.
- If the **RETURN** key is pressed immediately after typing a misspelled word, the buzzer will sound but the word will not flash on the display. (Except in text edit mode.)

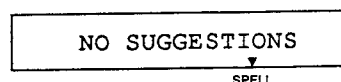
4 **CODE** + **( 9**



Press the **CODE+9** keys.  
The display will show "SEARCHING".

- A correctly spelled word will show on the display.  
If it is not the desired word, press the **CODE+9** keys again to display the next suggestion.

Repeat the above operation until the desired word is displayed. You can also call the previous or next suggestion by pressing the **BACKSPACE** or **FWD** key.  
If the correct word to be replaced cannot be found, the display will show:

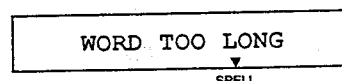


In this case, press the **CANCEL** (⊗) key and use the ordinary correction method.

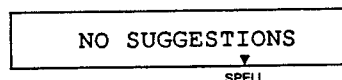
5 **RETURN**

When the desired word is displayed, press the **RETURN** key.  
The misspelled word will be replaced with correct one.

- You can correct the misspelled word while it is flashing.
- If the length of the correct word is different from the misspelled word in the "TPW" mode, the misspelled word and the following characters are deleted and reprinted.
- If the word to be inserted is longer than the misspelled word, causing the line to go past the right limit margin, the display will show:



- If no suggestion is found when the **CODE+9** keys are pressed, the display will show:





## Word Endings

Accu-Spell Plus checks a word when it has been completed.

The typewriter judges that a word has been completed when you perform one of the following operations:

- when you press the **SPACE BAR** after a word
- when you press the **RETURN** key
- when you press a function key to move the carriage (**TAB**, **SPACE BAR**, etc.)
- when you perform right margin flush or centering

When you enter a character after entering a hyphen at the end of a line, the automatic return is performed and the word will be connected to the beginning of the next line, and will be spell verified as a single word.

Accu-Spell Plus checks spelling according to the following rules.

- Numbers and symbols are also treated as a word. For example, "etc" is treated as a mistake while "etc." is judged correct.
- Symbols before and after a word such as " (quotation marks) and ? (question mark) are first removed from the word before it is spell verified. For example, "Great!!" is judged correct, but "Gleat!!" is judged incorrect.
- Some punctuation errors are detected. For example, "word:)" is judged as an error and the buzzer will sound.
- Some errors of apostrophe are detected. For example, "now's" and "at's" will be judged incorrect.
- A word consisting of several words joined by hyphens, such as "mother-in-law", is spell verified as a single compound word.

- Accu-Spell Plus takes into account the difference between capital letters and small letters.

If you type "check, Check, CHECK", all of these words will be judged correct.

This is because when a word is at the beginning of a sentence, it starts with a capital letter, while if it is part of a title it consists entirely of capital letters. If, however, you type "CHeck", it will be judged incorrect.

- In the case of words which always begin with a capital letter, such as America, both "America" and "AMERICA" will be judged correct, however "america" will be judged incorrect.

Sometimes the buzzer will sound even if you type a correct word, because the word is not in the basic dictionary. If you only use the word occasionally, you can ignore the buzzer and continue typing. If you use the word fairly frequently, it is a good idea to add it to the user's dictionary.

## B How to Verify/Correct the Spelling of an Entire Text

- 1 Recall the text to be verified.

While Accu-Spell Plus is activated, press the **TEXT** key, enter the text name to be verified, and press the **RETURN** key.

- 2 Move the beginning of the text.

- 3  + 

Press the **CODE+F** keys.

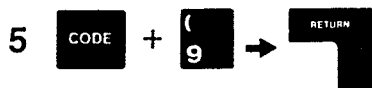
- 4 Each word in the text will be verified.

Each word in the text will be verified from the behind the right edge of the LCD sequentially to the end of text.

The display will show "VERIFYING".



If a word that is not in the dictionary is found, spell verification will be interrupted, the buzzer will sound, and the word will appear as a flashing indication on the display.

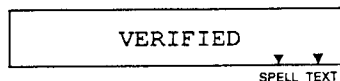


Correct the misspelled words by pressing the **CODE+9** keys and **RETURN** key.



To continue spell verification press the **CODE+F** keys.

If no misspelled words are found in any part of the text, the message "VERIFIED" will appear on the display.

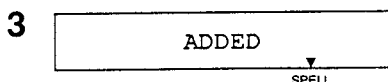


## C How to Add Words to the User's Dictionary

- 1 Enter the word to be added.

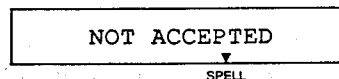


Press the **CODE+8** keys.

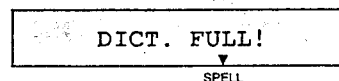


The word will be registered in the user's dictionary.  
The display will show "ADDED".

- You can add a word by pressing the **CODE+8** keys immediately after the check.
- You can also add a word by first moving the carriage to the desired word.
- You can also add words which include numbers and symbols.  
At least two alphabet characters should be included for registration.  
Otherwise, the display will show:

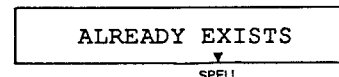


- If there is no room in the user's dictionary memory to add the word, the buzzer will sound. The display will show:

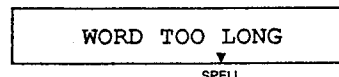


In this case, you must first delete a word or words already registered in order to add the new word.

- If the word which you want to add is already contained in the basic dictionary or the user's dictionary, the display will show:



- You can add a word up to a maximum of 30 characters long.  
If you attempt to add a word of more than 30 characters, the display will show:



## D How to List or Delete the Words in the User's Dictionary

### How to Display or Delete the Contents of the User's Dictionary

1 **CODE** + **& 7**

Press the **CODE+7** keys.  
The first word in the user's dictionary will appear on the display.

2 **FWD** / **BACK SPACE**

Each time you press the **FWD** or **BACKSPACE** key, the next or the previous word will be displayed in alphabetical order.

- You can see the contents of the user's dictionary from any point only by entering the capital letter you want to display from.
- By pressing the **CANCEL** (X) key, the word displayed will be deleted.  
The display will show:

DELETED  
↓  
SPELL

- If there is no word in the user's dictionary, the display will show:

DICT. EMPTY!  
↓  
SPELL

3 **LIST MODE END**  
↓  
SPELL

After the last word in the user's dictionary has been displayed, the display will show "LIST MODE END".

### How to Print the Contents of the User's Dictionary

1 **PRINT ON/OFF**

While in the list mode, press the **PRINT** key. Printing will start from the current word.

2 **PRINT ON/OFF** (If you want to stop printing.)

If you want to stop printing, press the **PRINT** key. After the present line has been printed, printing will temporarily stop.

3 **PRINT ON/OFF** (Printing will start again.)

By pressing the **PRINT** key once again, printing will start.

4 **LIST MODE END**  
↓  
SPELL

After the last word in the user's dictionary has been printed, the display will show "LIST MODE END".

### How to Exit the List Mode (Display)

**CODE** + **& 7**

While in the list mode, press the **CODE+7** keys.

## 5-1 USE AS A PRINTER (with KX-R60)

To use this unit as a printer, the following must be purchased separately.

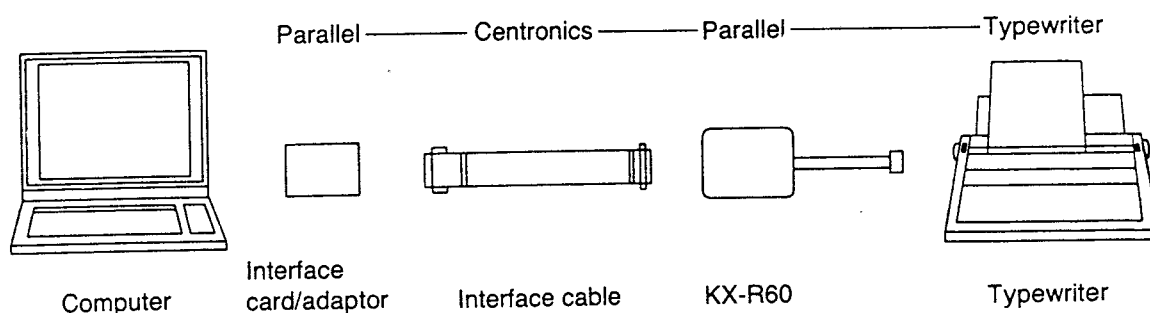
- KX-R60 (Interface Adaptor), optional
- Interface cable
- Interface card (if necessary for your computer)

### A Connection to a Computer

This unit has a connector that is designed to receive data from the Panasonic KX-R60 Interface Adaptor.

In turn, the KX-R60 connects to the computer (or to its external interface adaptor).

This typewriter can be used as a printer to print data from a computer that is equipped with a parallel (Centronics) interface. The KX-R540 emulates the boldface and underline commands used for EPSON printers.



- If your computer is not equipped with a Centronics parallel interface, then you will need to purchase one for your computer.
- Proceed with the connections before pressing the CODE+E keys.

Before connecting the computer, refer to the operating instructions for the KX-R60 and your computer.

### B Operation

1 **CODE** + **E**

Press the **CODE+E** keys.  
The display will show "ON LINE".

ON LINE

2 **PRINT**  
ON/OFF

To stop printing temporarily, press the **PRINT** key of the typewriter.

5

OFF LINE

- Press the **PRINT** key again to resume printing.
- While data is being received by the interface adaptor, the carriage automatically returns when it reaches the right margin. The paper advances one line and printing continues.
- When the **PRINT** key is pressed, printing will stop after the current line has been printed.

## C Reference

### Character Set

Every computer has a set of letters, numbers, and symbols that it can display. This is called its "character set". Every printer also has a character set, that is, the numbers, letters, and symbols that it can print. Unfortunately, these character sets do not match perfectly from computer to computer or printer to printer. Fortunately, enough of the characters do match so that you can print English sentences and, of course, numerals. The characters that don't match are usually the foreign character accents and other special symbols.

Lower \ Upper	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0			SP	0	@	P	`	p			ß	ˆ	Ú	ù		
1			!	1	A	Q	a	q			1/2	Ä	á	^		
2			"	2	B	R	b	r			1/4	Ë	é	Â		
3			#	3	C	S	c	s				Ï	í	Ê		
4			\$	4	D	T	d	t				Ö	ó	Î		
5			%	5	E	U	e	u				Ü	ú	Ô		ñ
6			&	6	F	V	f	v				ä	ˆ	Û		
7			'	7	G	W	g	w				ë	À	â		
8	BS		(	8	H	X	h	x			ç	ï	È	ê		
9	HT		)	9	I	Y	i	y				ö	ì	î		~
A	LF		*	:	J	Z	j	z			ı	ü	Ò	ô		Ã
B		ESC	+	;	K	SP	k	SP			ı	ˆ	Ù	û		Õ
C			,	SP	L	SP	l	SP			¢	Á	à			Ñ
D	CR		-	=	M	SP	m	SP			£	É	è			ã
E			.	SP	N	^	n	~				Í	ì			õ
F			/	?	O	_	o					Ó	ò			

(SP=Space)

- For the five types of accent symbols (Codes, B0H, BBH, C6H, D1H, F9H) the carriage stops at the printing position and moves after printing the next character.

## Control Codes

Symbol	Code	Operation
BS	08H	Back Space
HT	09H	Tabulation
LF	0AH	Line Feed
CR	0DH	Carriage Return
ESC	1BH	Special functions in combination with the following code

### •Expansion Function

ESC+"E" ..... (1BH+45H) ..... Bold ON  
 ESC+"F" ..... (1BH+46H) ..... Bold OFF  
 ESC+"G" ..... (1BH+47H) ..... Bold ON  
 ESC+"H" ..... (1BH+48H) ..... Bold OFF  
 ESC+"-" + 00H ..... (1BH+2DH+00H) .. Underline OFF  
 ESC+"-" + 01H ..... (1BH+2DH+01H) .. Underline ON  
 ESC+"-" + "0" ..... (1BH+2DH+30H) .. Underline OFF  
 ESC+"-" + "1" ..... (1BH+2DH+31H) .. Underline ON

## Auto Line Feed Operation

Automatic Line Feed can be selected by setting the Carriage Return Mode as shown below.

### •Automatic Carriage Return Mode

Auto Line Feed ON




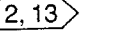





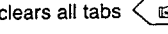
### •Manual Carriage Return Mode

Auto Line Feed OFF

Code	Auto Line Feed ON	Auto Line Feed OFF
CR	Carriage Return, Line Feed	Carriage Return
LF	Carriage Return, Line Feed	Line Feed
CR+LF	Carriage Return, Line Feed	Carriage Return, Line Feed
LF+CR	Carriage Return, Line Feed	Carriage Return, Line Feed

# 6-1 LIST OF CODE KEY FUNCTIONS

5	CODE + <b>A</b>	.....sets/releases auto carrier return mode	P.22
	CODE + <b>B</b>	.....sets/releases BOLD print	P.20
	CODE + <b>C</b>	.....centers information	P.22, 23
	CODE + <b>E</b>	.....sets the machine to be used as a printer to print data from a computer	P.44
	CODE + <b>F</b>	.....finds misspellings (in edit mode)	P.41, 42
6	CODE + <b>H</b>	.....half spacing	P.25
	CODE + <b>I</b>	.....sets/releases paragraph indent	P.24
	CODE + <b>J</b>	.....moves the carriage by 1/60 inch (Micro Spacing)	P.25
	CODE + <b>K</b>	.....initialize the carriage	P.9, 10
	CODE + <b>L</b>	.....controls the impact of the printed characters	P.25
	CODE + <b>M</b>	.....checks the remaining memory quantity	P.37
	CODE + <b>N</b>	.....locates next position of the word	P.33
6	CODE + <b>O</b>	.....renames texts	P.36
	CODE + <b>P</b>	.....sets a stop code in a text	P.38
	CODE + <b>Q</b>	.....moves, copies, or deletes an information block in a text	P.34, 35

CODE + 	.....prints information with the last character on each line aligned at the right margin	
CODE + 	.....searches words in a text	
CODE + 	.....inserts or appends a text into another text	
CODE + 	.....sets/releases continuous underlining	
CODE + 	.....stores margin format and changes margin format in a text	
CODE + 	.....sets/releases word by word underlining	
CODE + 	.....replaces words in a text	
CODE + 	.....activate/cancel the Accu-Spell Plus function	
CODE +  ~ 	.....shows the setting mode on the display	
CODE + 	.....lists the words registered in the user's dictionary	
CODE + 	.....add words to the user's dictionary	
CODE + 	.....display suggest spellings when the Accu-Spell Plus judges a word to be spelled incorrectly	
CODE + 	.....scrolls backward through the first characters of each line in a text	
CODE + 	.....scrolls forward through the first characters of each line in a text	
CODE + 	.....makes correction manually in normal mode/clears texts	
CODE + 	.....erases one line at a time	
CODE + 	.....permanent hyphen	
CODE + 	.....permanent space	
CODE + 	.....aligns decimal points at preset tab stops	
CODE + 	.....clears all tabs	
CODE + 	.....searches for the return mark while executing the word search command or the word replace command	
	.....inserts the paper automatically	
CODE + 	.....presets the unit for typing capital letters, lower case numbers, punctuation marks and symbols	
CODE + 	.....moves the carriage to the beginning of the line without line spacing	

## 6-2 LIST OF DISPLAY MESSAGES

Message	Description
ADDED .....	Word has been added into the user's dictionary.
ALL TABS CLEAR .....	All tabs are cleared.
ALREADY EXISTS .....	The entered word has already been added to the user's dictionary.
AUTO COLUMN .....	Auto column mode has been selected.
CHANGING .....	The machine is changing words.
CHECK PRINTER! .....	Something is wrong with the printer. Check the typewriter.
CHECK WIDTH!! .....	The margin setting is too narrow. Check the margin width.
CHG FORM Y/N? .....	Do you want to change the margin format stored in the text?
#### CHR. LEFT .....	The numeric value represents the number of characters left in memory.
CLEAR TEXT Y/N? .....	Do you want to clear this text from memory?
CODE .....	<b>CODE</b> key has been pressed.
## COL. MAX ## .....	Indicates the number of columns and the maximum number of characters.
CONT. TEXT Y/N? .....	Do you want to continue typing the text?
CONTINUE Y/N? .....	Do you want to continue printing?
COPY= .....	Enter the text name you want to insert/append.
C-WD= .....	Enter the word or words you want to replace.
DELETED .....	Item has been deleted from the user's dictionary.
DICT. EMPTY! .....	There are no words in the user's dictionary.
DICT. FULL! .....	There is no room in memory in the user's dictionary.
END .....	The auto column mode is completed.
HEADING Y/N? .....	Do you want to enter a heading?
HOW MANY? 2-12 .....	How many columns?
IMPRESSION: # .....	Typing impression is changed.
IN/EDIT/LIST? .....	Do you want to enter an information; edit information; or print a list?
INPUT DATA .....	Enter each column's data.
LIST MODE END .....	This position is end of list.
L.M. SET .....	The left margin has been set.
MAR CURR/STOR? .....	Which margin format do you want to use, the current one or the one you used when storing?
MEMORY FULL! .....	Entire memory capacity has been used.
MOVE/COPY/DEL? .....	Do you want to move the block?; copy the block?; delete block?
NEW= .....	Enter the new name for a stored text.
NO SUGGESTION .....	No alternatives are in the basic and user's dictionary.
NOT ACCEPTED .....	The entered word is an error.
NOT FOUND!! .....	The required word is not within this text or the text is not in memory. The entered word does not exist in the user's dictionary.
OFF LINE .....	The machine is not ready to receive data from a computer and stops printing.
ON LINE .....	The machine is ready to receive the data from a computer and you can use it as a printer.
PRINTING .....	The machine is printing.
R.M. SET .....	The right margin has been set.
R-WD= .....	Enter the word or words you want to insert.



Message	Description
SEARCHING.....	Searching for suggested spellings.
STOP CODE.....	Insert variable information here and press the <b>PRINT</b> key to continue text.
STOP CODE SET.....	A stop code has been set.
S-WD=.....	Enter the information you want to search for.
TAB SET.....	A tab stop has been set.
TAB CLEAR.....	The unit clears a tab stop.
TEXT=.....	Enter the name of text.
TEXT PRINTING.....	The machine is printing from text memory.
TOO MANY TABS!.....	You have tried to enter more than the maximum number of tab stops.
TOP OF LIST.....	This position is top of list in the Accu-Spell Plus mode.
VERIFIED.....	Verifying is complete.
VERIFYING.....	The machine is verifying.
WORD TOO LONG.....	The entered word is too long (greater than 30 characters).

## 6-3 OTHERS

### A Troubleshooting

- Check the points below before returning your typewriter for service.

Symptom	Cause	Remedy/check
No operation; even when keys are pressed, nothing appears on the display.	The <b>POWER</b> switch is turned "OFF" or power cord is unplugged.	Turn the <b>POWER</b> switch "ON". Plug in the power cord.
	The LCD contrast control is set to low contrast.	Adjust the setting of the LCD contrast control.
Unit does not print correctly, or printing is blurred.	Paper release lever is in the release position.	Push lever to the lock position.
	End of ribbon cassette or correction tape.	Replace with new ribbon cassette or correction tape.
No deletion even with the <b>CANCEL</b> (X) key; blurred characters.	Correction tape is not installed, or installed incorrectly.	Install correction tape.
Buzzer sounds during typing and typing is disabled (keys do not function).	Carriage at right margin.	Press the <b>RETURN</b> key and move carriage to next line.
		Press the <b>MAR REL</b> key and continue printing on same line.
	Text memory is full.	Re-edit the data or cancel the text memory mode.
The unit does not operate properly. The error buzzer sounds when typing and/or keys do not function. Text Memory may contain garbled characters.	Noise on the AC line or static electricity may prevent the unit from operating properly.	Turn the <b>POWER</b> "OFF" for a few seconds then "ON" again. If the unit still does not function properly turn the <b>POWER</b> "OFF", press and hold the <b>CODE+SHIFT</b> keys and turn the <b>POWER</b> "ON". This performs a total reset which clears all memory and margin formats.

### B Product Service

Should your Panasonic product ever require service, refer to the directory for an Authorized Servicenter or consult your authorized Panasonic dealer for detailed instructions.

To locate an Authorized Servicenter in your area within the U.S.A.

# DIAL TOLL FREE: 1-800-447-4700

24 Hours a Day, 7 Days a Week

Consumers requiring assistance with service matters should contact the appropriate Regional Administration Office:

**NORTHEAST**  
2250 Cabot Blvd., West  
Langhorne, PA 19047  
(215) 741-0676

**MIDWEST**  
425 East Algonquin Road  
Arlington Heights, IL 60005  
(708) 981-4842

**WESTERN**  
6550 Katella Avenue  
Cypress, CA 90630  
(714) 373-7440

**SOUTHERN**  
1854 Shackelford Court,  
Suite 105  
Norcross, GA 30093  
(404) 925-6860

**Covers:**  
CT, DE, ME, MD, MA,  
NH, NJ, NY, PA, RI, VT,  
VA, DC, WV, East OH

**Covers:**  
IL, IN, IA, KS, KY, MI,  
MN, MO, NE, ND, SD,  
West OH, WI

**Covers:**  
AK, AZ, CA, CO, ID,  
MT, NV, NM, OR, UT,  
WA, WY, HI

**Covers:**  
AL, AR, FL, GA, LA,  
MS, NC, SC, TN, TX,  
OK

Consumers requiring product information or operating assistance with a consumer product should contact:

**CONSUMER AFFAIRS DEPARTMENT 2F-3**  
50 Meadowland Parkway Secaucus, N.J. 07094 (201) 348-9090

## Service in Puerto Rico

**MATSUSHITA ELECTRIC OF PUERTO RICO, INC.**  
**Panasonic Sales Company/Factory Servicenter**  
San Gabriel Industrial Park  
65th Infantry Avenue KM 9.5  
Carolina, Puerto Rico 00630 (809) 750-5135

F80720

Your product is designed and manufactured to ensure a minimum of maintenance. However, should your unit ever require service, a nationwide system of **FACTORY SERVICENTERS** and **AUTHORIZED INDEPENDENT SERVICENTERS** is maintained to support your product's warranty.

## Service in the U.S.A. ... Factory Servicenters

**MATSUSHITA SERVICES COMPANY**  
Division of Matsushita Electric Corporation of America  
50 Meadowland Parkway, Secaucus, New Jersey 07094

**ALABAMA**  
2523-5th Avenue, South  
Birmingham, AL 35233  
205-252-4195  
**ARIZONA**  
9332 North 95th Way  
Suite 101  
Scottsdale, AZ 85258  
602-860-6777  
**CALIFORNIA**  
6550 Katella Avenue  
Cypress, CA 90630  
714-373-7426  
930 South Mt. Vernon Drive  
Colton, CA 92324  
714-825-3110  
800 Dubuque Avenue  
So. San Francisco, CA 94080  
415-871-6373  
20201 Sherman Way  
Suite 102  
Canoga Park, CA 91306  
818-709-1775  
3878 Ruffin Road  
Suite A  
San Diego, CA 92123  
619-560-9200

**COLORADO**  
1640 South Abilene  
Aurora, CO 80012  
303-752-2024  
**FLORIDA**  
16175 NW 52nd Avenue  
Miami, FL 33014  
305-624-6521  
4115 W. Kennedy Boulevard  
Tampa, FL 33609  
813-289-9726  
**GEORGIA**  
4245 International Blvd.  
Suite C  
Norcross, GA 30093  
404-925-6880  
  
1575 Northside Drive  
Suite 325  
Atlanta, GA 30318  
404-351-8978  
(carry-in service only)  
**HAWAII**  
99-859 Iwaiwa Street,  
P.O. Box 774 Honolulu,  
Hawaii 96808-0774  
808-488-1996

**ILLINOIS**  
425 E. Algonquin Road  
Arlington Heights, IL 60005  
708-981-4840  
**MARYLAND**  
Sulphur Spring Business Park  
1638 Sulphur Spring Road  
Baltimore, MD 21227  
301-242-2607  
**MASSACHUSETTS**  
383 University Avenue  
Westwood, MA 02090  
617-329-4280

**MINNESOTA**  
7850-12th Avenue, South  
Airport Business Center  
Bloomington, MN 55420  
612-854-8624  
**MISSOURI**  
13711 Rider Trail North  
Earth City, MO 63045  
314-739-5301  
**OHIO**  
1196 W. Kemper RD  
Cincinnati, OH 45240  
513-851-4180  
**PENNSYLVANIA**  
2250 Cabot Blvd.,  
West Langhorne, PA 19047  
215-741-0661  
4986 Library Road, Rt. 88  
Hillcrest Shopping Center  
Bethel Park, PA 15102  
412-343-0555

**TENNESSEE**  
925-8th Avenue, South  
Nashville, TN 37203  
615-244-4434  
**TEXAS**  
7420 Harwin Drive  
Houston, TX 77036  
713-781-1528  
4500 Amon Carter Blvd.  
Fort Worth, TX 76155  
817-685-1060  
**WASHINGTON**  
20425-84th Ave., South  
Kent, WA 98032  
206-872-7922

As of Feb '90

PANASONIC COMPANY, DIVISION OF  
MATSUSHITA ELECTRIC CORPORATION  
OF AMERICA  
One Panasonic Way  
Secaucus, New Jersey 07094

PANASONIC SALES COMPANY, DIVISION  
OF MATSUSHITA ELECTRIC OF PUERTO  
RICO, INC.  
San Gabriel Industrial Park  
65th Infantry Avenue KM 9.5  
Carolina, Puerto Rico 00630

## PANASONIC PORTABLE TYPEWRITER AND PERIPHERALS LIMITED WARRANTY

Panasonic Company, or Panasonic Sales Company (Collectively referred to as "Panasonic") will repair this product, free of charge, in the U.S.A. or Puerto Rico from the date of the original purchase in the event of a defect in materials or workmanship as follows:

### Parts

New or rebuilt parts in exchange for defective parts for one (1) year from original purchase.

### Labor

Carry-in or mail-in service for ninety (90) days after original purchase. After the labor warranty period is over, purchaser pays for all labor charges for removal and installation.

Carry-in or mail-in service in the continental U.S.A. can be obtained during the warranty period from a Matsushita Services Company (MSC) Factory Servicenter listed in the Servicenter Directory, or call 800-447-4700, toll free, to locate an authorized MSC Servicenter. Carry-in or mail-in service in Puerto Rico can be obtained during the warranty period by calling the telephone numbers listed in the Servicenter Directory.

This warranty is extended only to the original purchaser. A purchase receipt or other proof of date of original consumer purchase will be required before warranty performance is rendered.

### One Year (1) Extended Warranty on Lithium Batteries

New Lithium battery in exchange for a defective Lithium battery during the first twenty four (24) months after the original purchase.

This warranty only covers failures due to defects in materials or workmanship which occur during normal use and does not cover the print ribbon, or correction tape. It does not cover damage which occurs in shipment or failures which result from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, modification, line power surge, or commercial use such as hotel, office, restaurant or other business use or rental use of the product, or service by anyone other than an MSC Factory Servicenter or authorized MSC Servicenter, or damage that is attributed to acts of God.

### LIMITS AND EXCLUSIONS

There are no express warranties except as listed above.

PANASONIC SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

This limited warranty gives you specific legal rights and you may also have other rights which vary from state to state.

If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, write to the Consumer Affairs Division at the company address indicated above.

## FOR YOUR PROTECTION

Complete and immediately mail the Product Analysis Card so that we may contact you directly in the event a safety notification is issued in accordance with the 1972 Consumer Product Safety Act, or for other reasons Panasonic may deem necessary. Also, we ask that you complete the questionnaire so we may analyze your comments and, in this way, help us evaluate customer needs.

## IF YOU SHIP THE PRODUCT

Carefully pack and send it prepaid, adequately insured and preferably in the original carton. Attach a postage-affixed letter, detailing the complaint, to the outside of the carton.

*Do NOT send the product to the Executive or Regional Sales office. They are NOT equipped to make repairs.*

## 6-4 OPTIONAL ACCESSORIES

- Replacement parts and accessories are available through your local authorized parts distributor.
- For the authorized distributors in your area, call toll free: 1-800-447-4700.

Part No.	Description	Comment
KX-R10	Daisywheel Printing Element	1 unit
KX-R11	COURIER 10	1 unit
KX-R12	PRESTIGE PICA 10	1 unit
KX-R13	PRESTIGE ELITE 12	1 unit
KX-R14	SCRIPT 10/12	1 unit
KX-R15	GOTHIC 15	1 unit
KX-R16	ORATOR 10	1 unit
	BERLIN ITALIC 10/12	1 unit
KX-R20	Correctable Film-Ribbon Cassette	1 unit
KX-R21	Fabric Ribbon Cassette	1 unit
KX-R30	Lift-off Correction Tape	2 units
KX-R31	Cover-up Correction Tape	2 units
KX-R50	Correctable Film-Ribbon Cassette	2 units
KX-R51	{ Correctable Film-Ribbon Cassette	{ 3 units
	{ Lift-off Correction Tape	{ 2 units
KX-R52	{ Correctable Film-Ribbon Cassette	{ 3 units
	{ Lift-off Correction Tape	{ 2 units
	{ Daisywheel Printing Element (SCRIPT 10/12)	{ 1 unit
KX-R60	Interface Adaptor	1 unit


## 6-5 SPECIFICATIONS

Print Element:	Daisywheel; 96 characters
Print Speed:	12 cps
Print Pitch:	10, 12, 15
Line Spacing:	1, 1 1/2, 2
Paper Width:	12"
Writing Line:	10"
Ribbon:	Correctable Film-Ribbon, Fabric Ribbon (Optional)
Correction Tape:	Lift-off Tape, Cover-up Tape (Optional)
Operating Modes:	TPW, L/L, JST
Memory Life:	Min. 5 years (Lithium Battery)
Correction Memory:	1 line
Text Memory:	8,000 characters
Built-in Dictionary:	63,000 words
User Dictionary:	120 words
Display Type:	Liquid Crystal Display with contrast control
Display Size:	15 characters
Interface:	Parallel (Centronics) with optional Interface Adaptor KX-R60 (receive only)
Power Requirements:	AC 120 V $\pm$ 10% 60 Hz
Power Consumption:	35 W (Approx. 3W: When the power switch is turned off)
Operating Temperature:	41°F (5°C) to 95°F (35°C)
Operating Humidity:	20 to 80% RH
Storage Temperature:	-4°F (-20°C) to 140°F (60°C)
Dimensions:	17" (W) $\times$ 14 3/4" (D) $\times$ 4 3/8" (H) (432 $\times$ 375 $\times$ 112 mm)
Weight:	12 3/4 lbs. (5.8 kg)

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